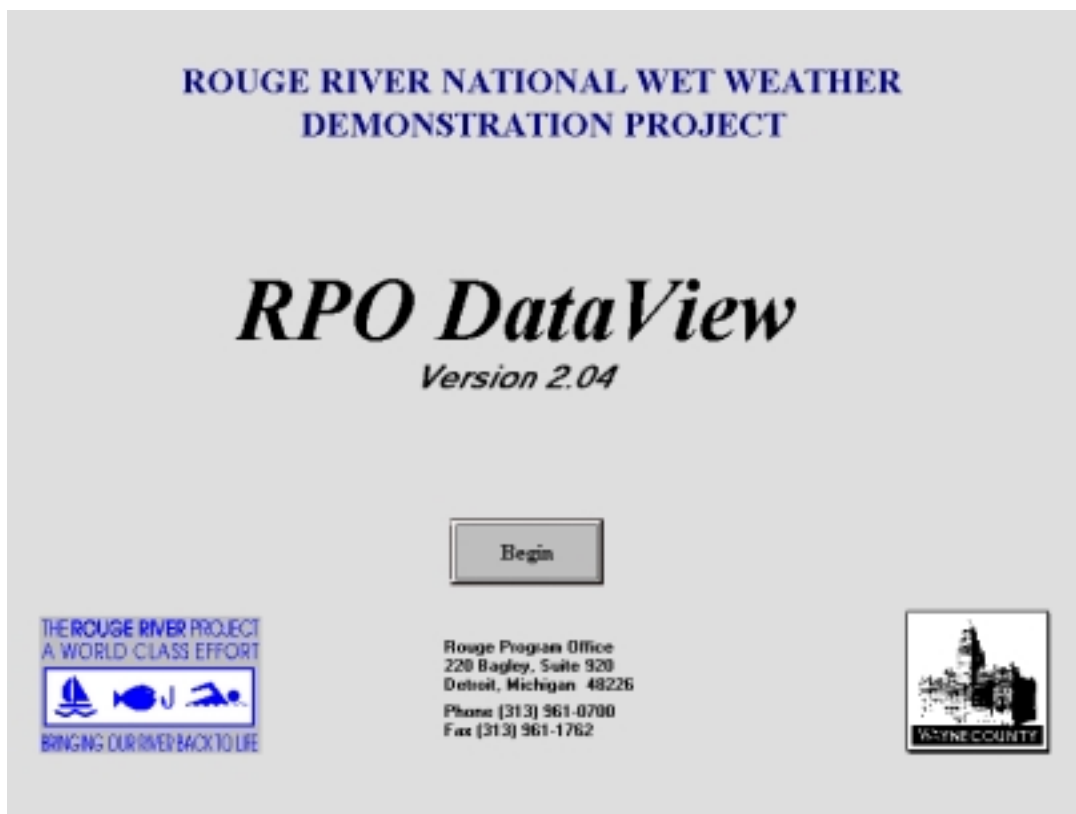


# Rouge River National Wet Weather Demonstration Project



## DataView Training



January 2000



**ROUGE RIVER NATIONAL WET WEATHER  
DEMONSTRATION PROJECT**

***RPO DataView***  
*Version 2.04*

Begin

THE ROUGE RIVER PROJECT  
A WORLD CLASS EFFORT



BRINGING OUR RIVER BACK TO LIFE

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Fax (313) 961-1762



# RPO DataView

- Data exploration tool which combines tabular data viewing, data plotting, summary statistics and spatial display
- Allow for non-numeric data association to sites
- Provides for creation of ASCII files

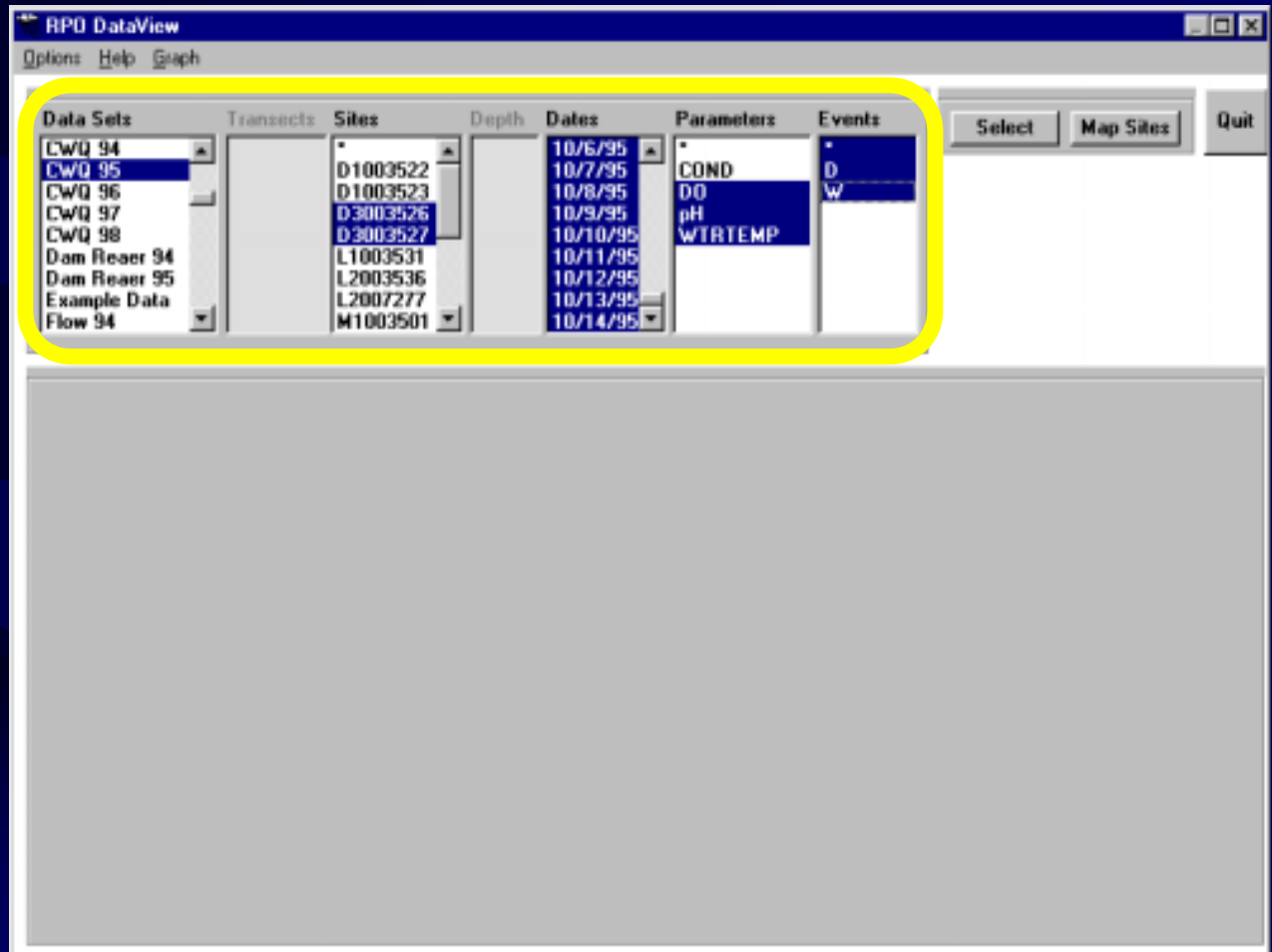
# List Boxes

- Only Data Sets box is populated when DataView begins



# List Boxes

- Data Set
  - collection of data for a time period
- Sites
- Dates
- Parameters
- Events



# Main Menu

The F1 key displays information about the selected item from the list boxes on the main menu

**DataView**

1997, hourly flow measurements from 5 RPO gauging stations within the Rouge River watershed.

OK

**Parameter Description**

Conductivity is a measure of the ability of water to conduct electricity. It is proportional to the concentration of salt ions contained in the water sample. The ion concentration that is measured in a body of water, such as the Rouge River, were originally components of the soil that is in contact with the river.

OK

**Site Descriptions**

Site\_ID U1003575

Field ID U05

Description TELEGRAPH ROAD

Location TELEGRAPH RD. SOUTH OF GRAHAM RD.

X Coordinate 13417344.89962

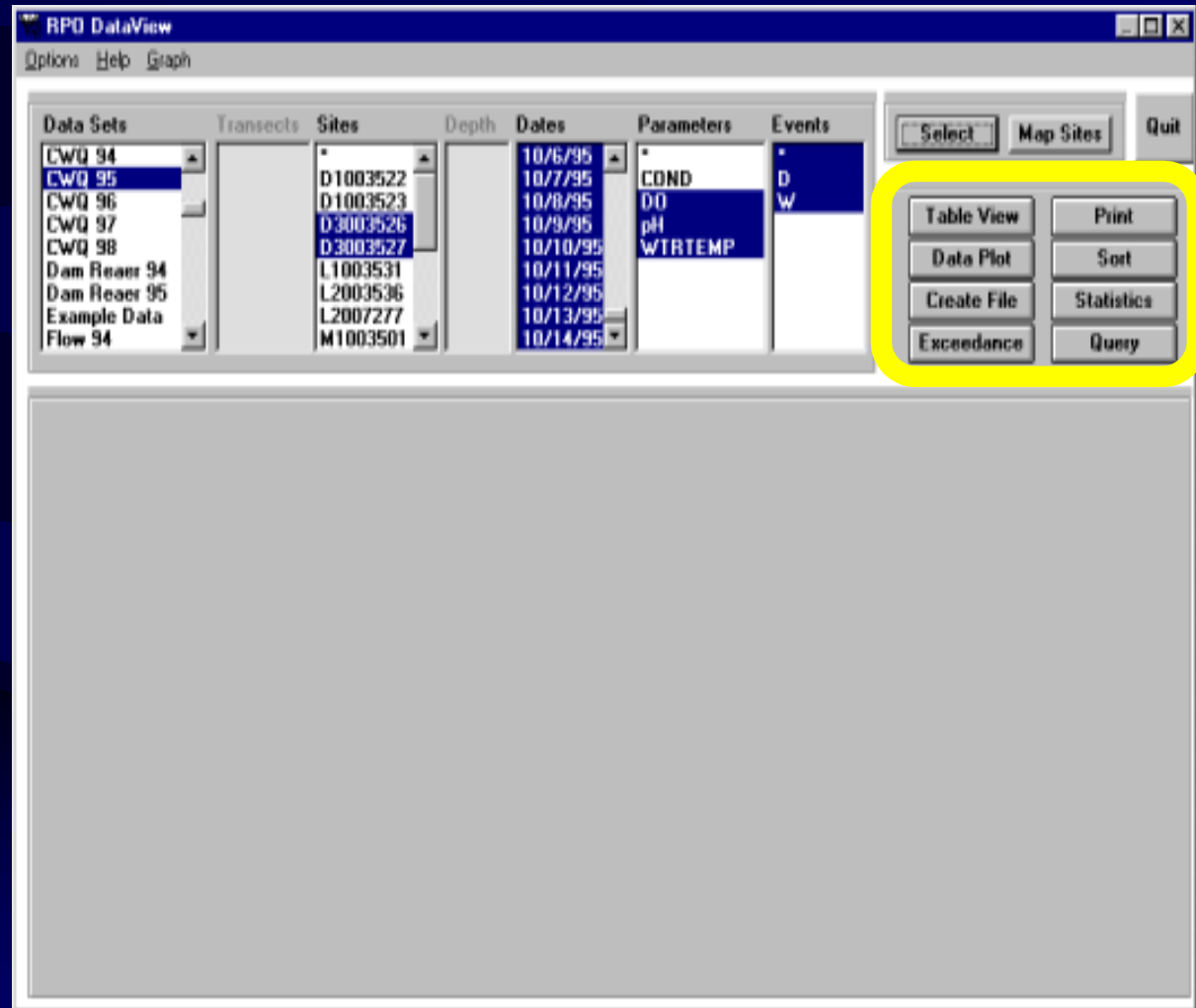
Y Coordinate 327503.6168

Data Sets CwQ 94,CwQ 95,CwQ 96,CwQ 97,CwQ 98,Flow 94,Flow 95,Flow 96,Flow(U) 98,Grab DO 97,Grab DO 98,Lab 94,Lab 95,Lab 96,Lab 97,Lab 98,Lab EC 94,Lab EC 95,Lab EC

# Main Menu

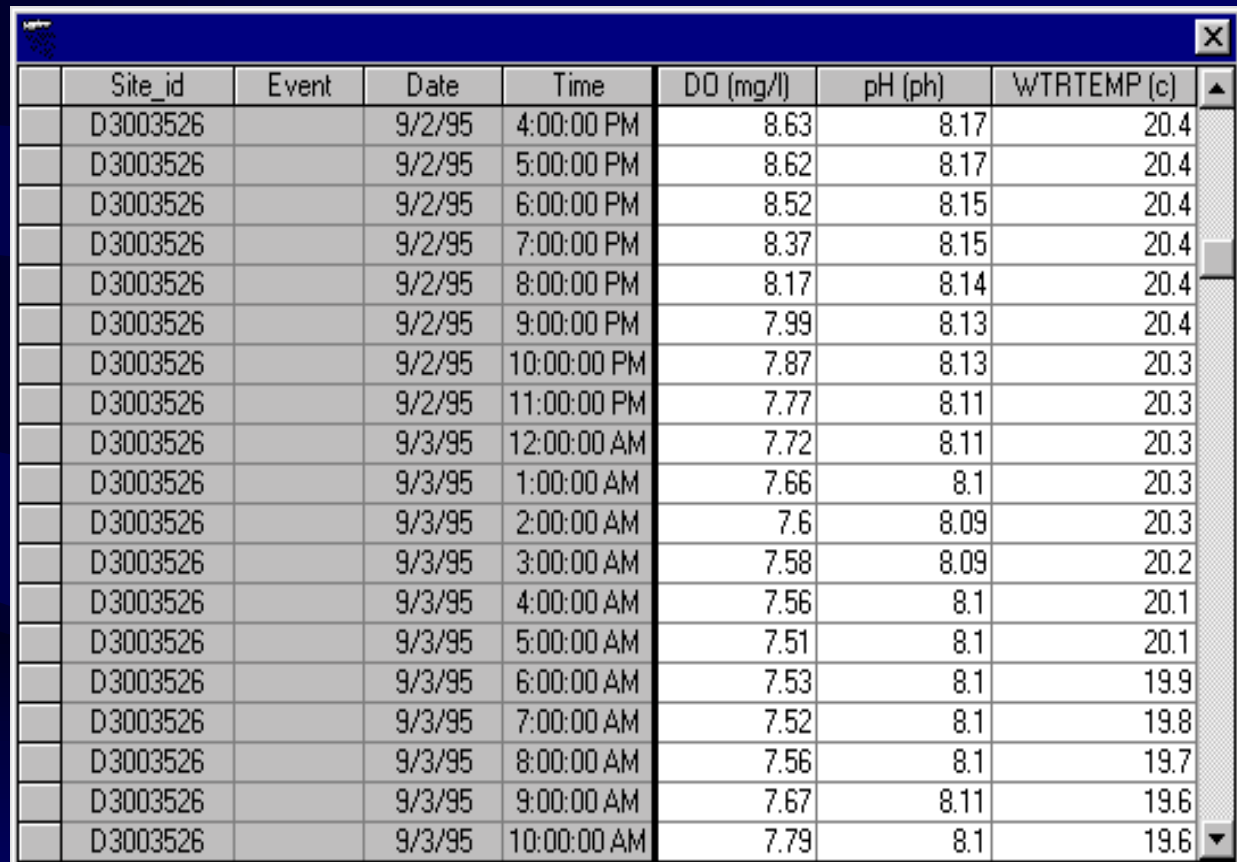
## Data Options

- Available after data set has been selected



# Table View

- Cross - Tabulated View Option
- all parameters on one line sorted by site, date, time

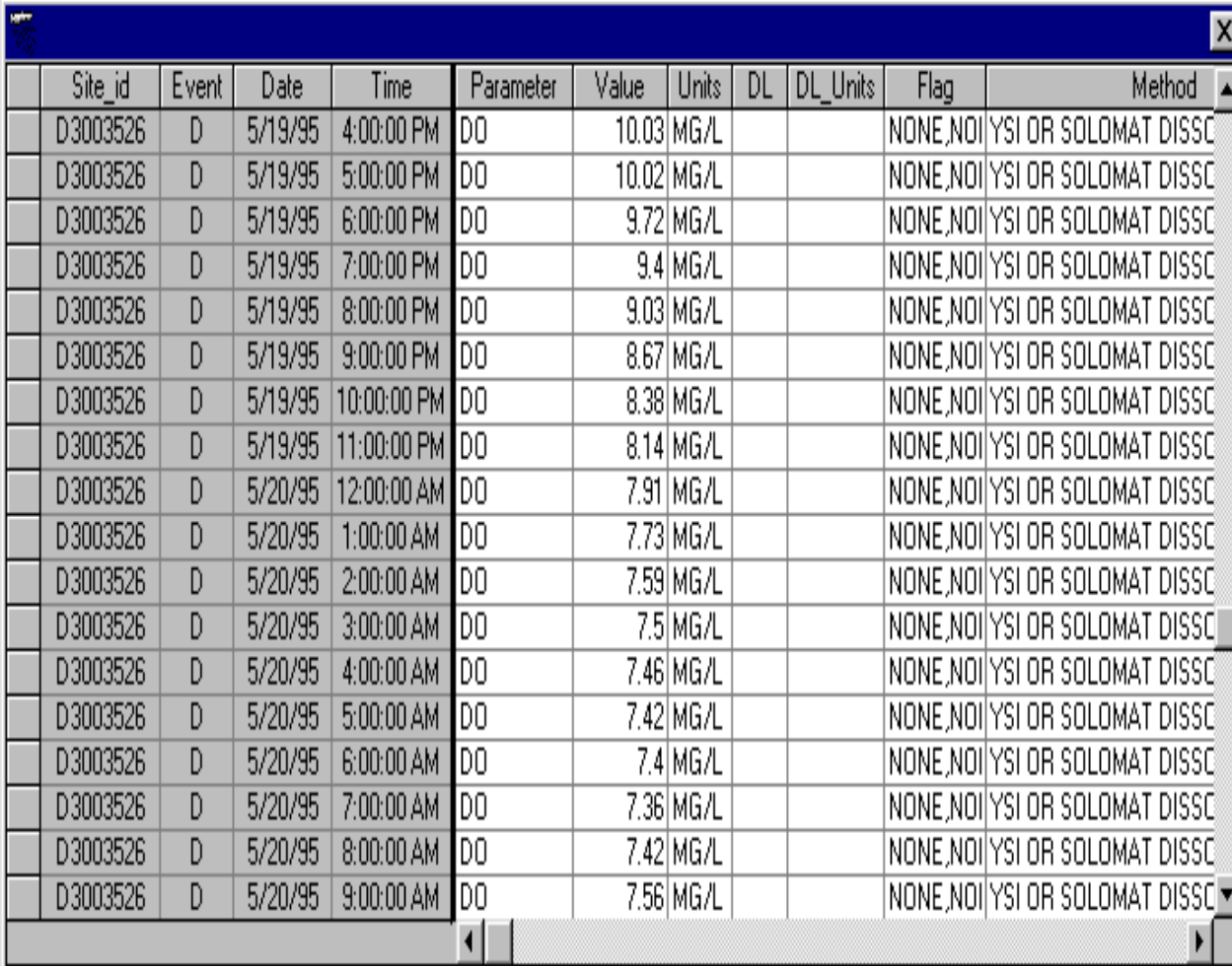


The screenshot shows a window titled "Table View" containing a table with the following data:

	Site_id	Event	Date	Time	DO (mg/l)	pH (ph)	WTRTEMP (c)
	D3003526		9/2/95	4:00:00 PM	8.63	8.17	20.4
	D3003526		9/2/95	5:00:00 PM	8.62	8.17	20.4
	D3003526		9/2/95	6:00:00 PM	8.52	8.15	20.4
	D3003526		9/2/95	7:00:00 PM	8.37	8.15	20.4
	D3003526		9/2/95	8:00:00 PM	8.17	8.14	20.4
	D3003526		9/2/95	9:00:00 PM	7.99	8.13	20.4
	D3003526		9/2/95	10:00:00 PM	7.87	8.13	20.3
	D3003526		9/2/95	11:00:00 PM	7.77	8.11	20.3
	D3003526		9/3/95	12:00:00 AM	7.72	8.11	20.3
	D3003526		9/3/95	1:00:00 AM	7.66	8.1	20.3
	D3003526		9/3/95	2:00:00 AM	7.6	8.09	20.3
	D3003526		9/3/95	3:00:00 AM	7.58	8.09	20.2
	D3003526		9/3/95	4:00:00 AM	7.56	8.1	20.1
	D3003526		9/3/95	5:00:00 AM	7.51	8.1	20.1
	D3003526		9/3/95	6:00:00 AM	7.53	8.1	19.9
	D3003526		9/3/95	7:00:00 AM	7.52	8.1	19.8
	D3003526		9/3/95	8:00:00 AM	7.56	8.1	19.7
	D3003526		9/3/95	9:00:00 AM	7.67	8.11	19.6
	D3003526		9/3/95	10:00:00 AM	7.79	8.1	19.6

# Table View

- Record View Option
- each row represents one data base record



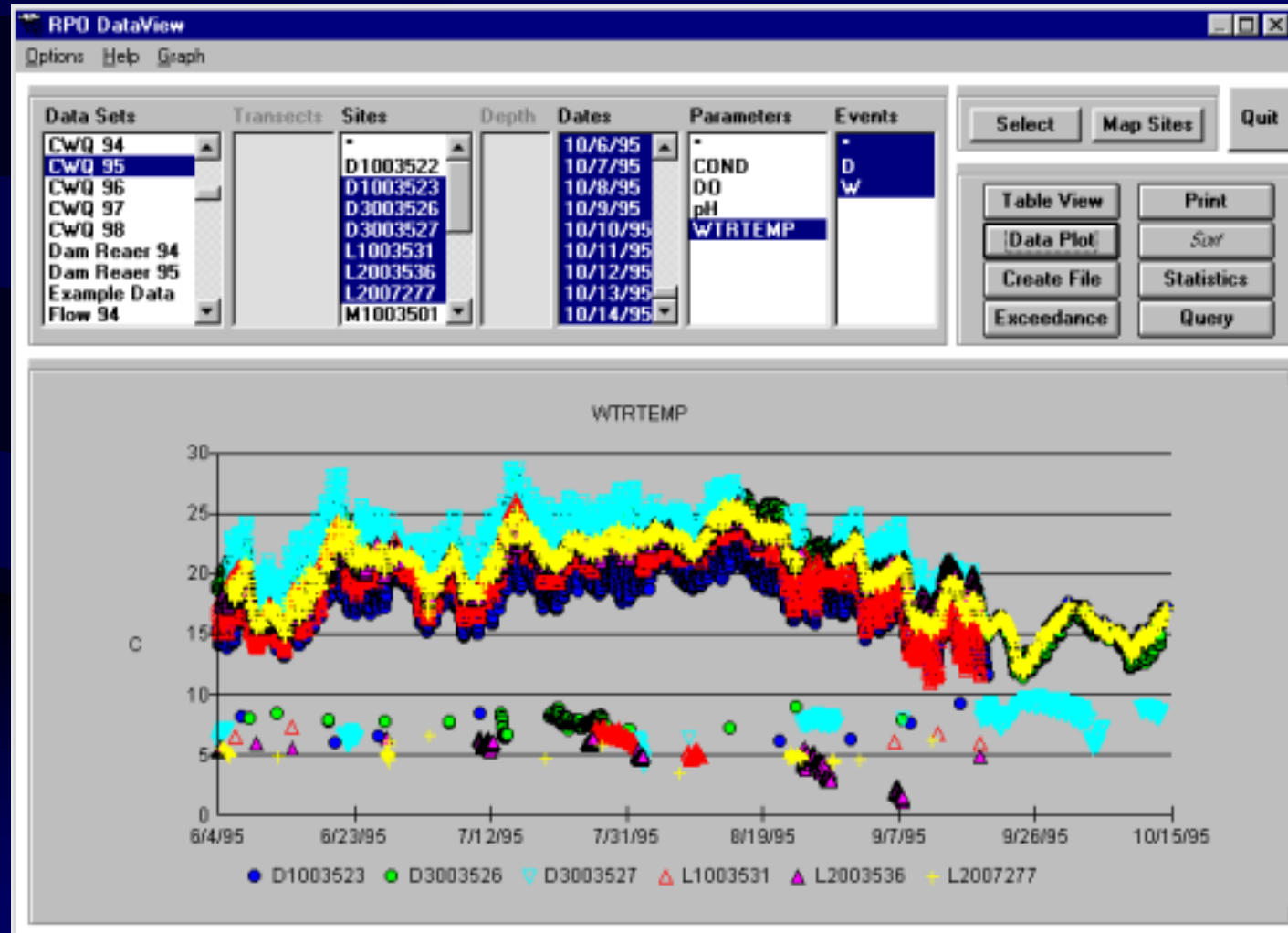
Site_id	Event	Date	Time	Parameter	Value	Units	DL	DL_Units	Flag	Method
D3003526	D	5/19/95	4:00:00 PM	DO	10.03	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	5:00:00 PM	DO	10.02	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	6:00:00 PM	DO	9.72	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	7:00:00 PM	DO	9.4	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	8:00:00 PM	DO	9.03	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	9:00:00 PM	DO	8.67	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	10:00:00 PM	DO	8.38	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/19/95	11:00:00 PM	DO	8.14	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	12:00:00 AM	DO	7.91	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	1:00:00 AM	DO	7.73	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	2:00:00 AM	DO	7.59	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	3:00:00 AM	DO	7.5	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	4:00:00 AM	DO	7.46	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	5:00:00 AM	DO	7.42	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	6:00:00 AM	DO	7.4	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	7:00:00 AM	DO	7.36	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	8:00:00 AM	DO	7.42	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC
D3003526	D	5/20/95	9:00:00 AM	DO	7.56	MG/L			NONE,NOI	YSI OR SOLOMAT DISSC

# Data Plot

- Up to 6 sites with one parameter
- One site with up to 2 parameters
- Separate plot showing flow or rain at a selected location may be added
- Statistics available including
  - mean
  - max
  - standard deviation
  - best fit

# Data Plot

Plots can be created displaying the same parameter at up to 6 locations



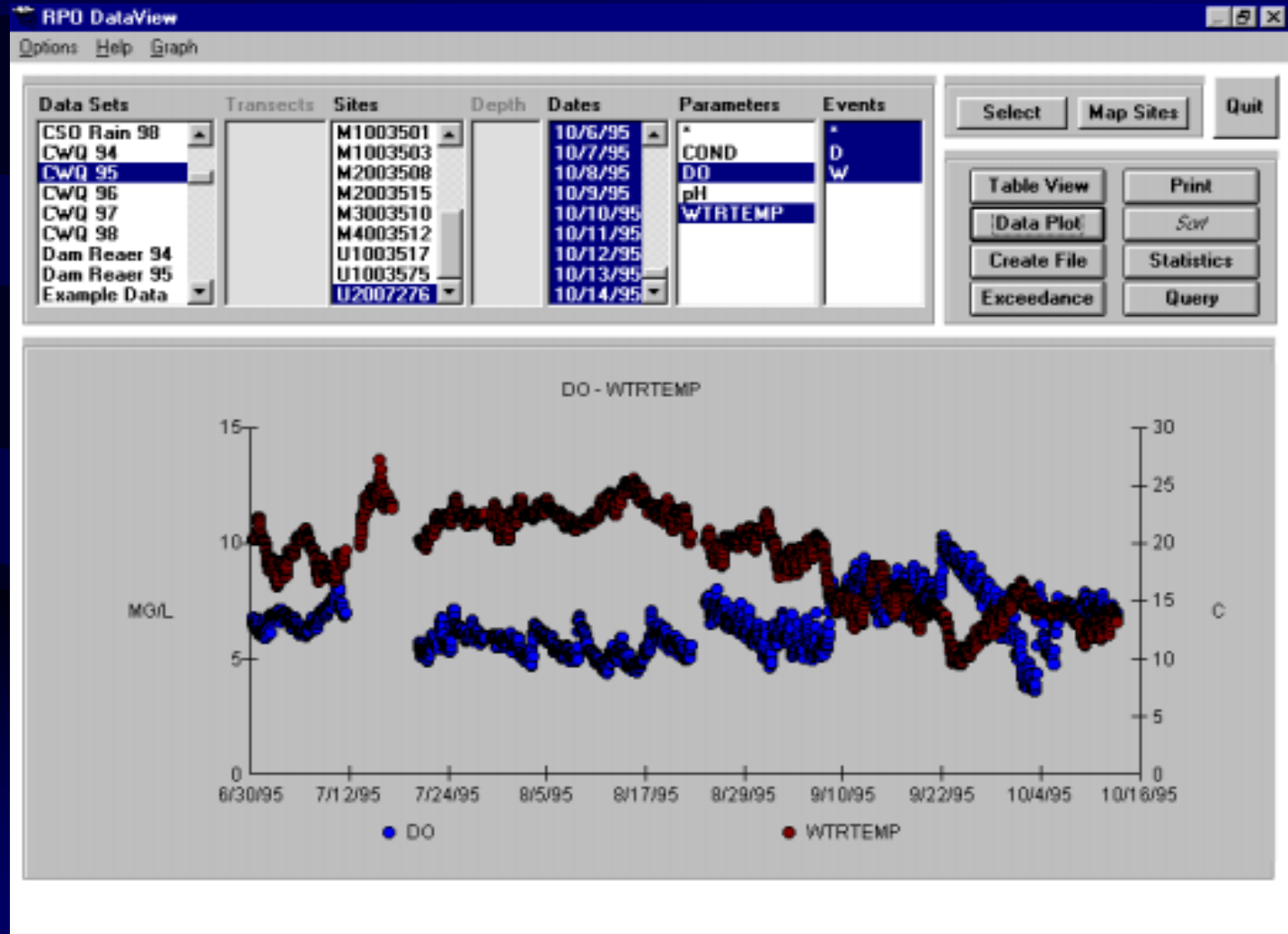
# Data Plot

- **Right Click on the plot to display graphing options**
  - **Flow**
  - **Rain**
  - **Grids**
  - **Statistics**
  - **Print**



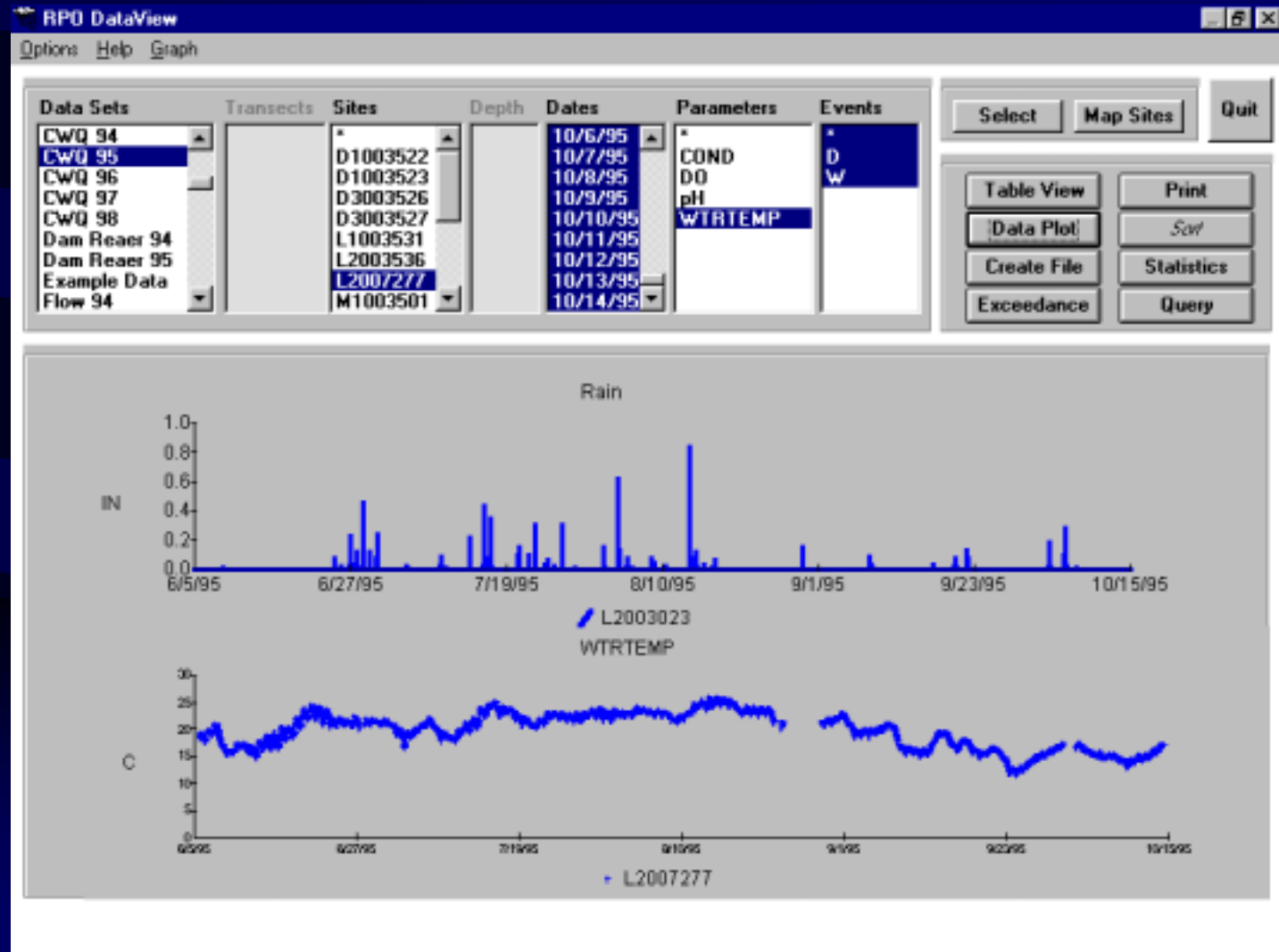
# Data Plot

Plots can be created displaying up to two parameters for the same location



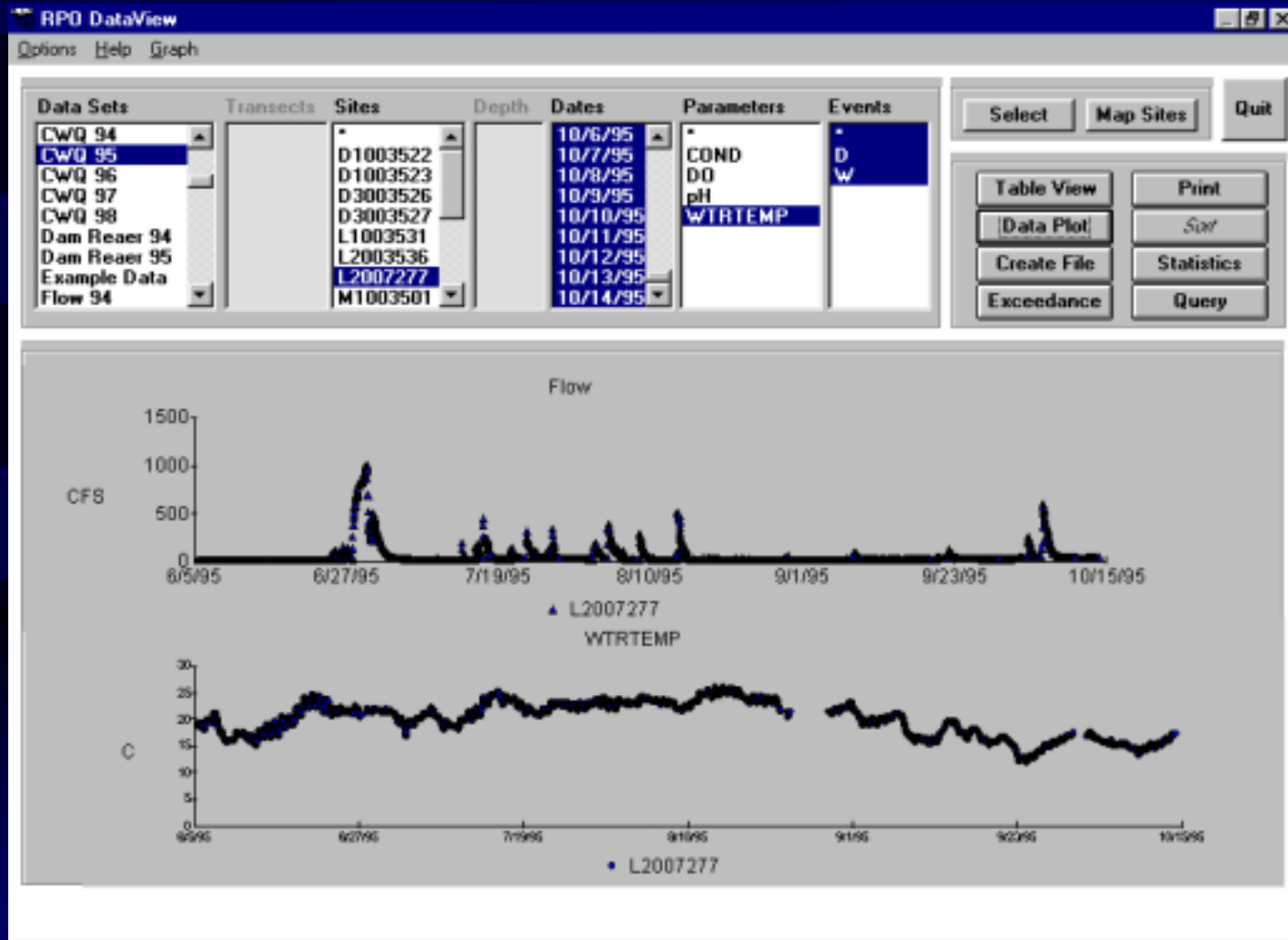
# Data Plot

A plot of  
rainfall  
may be  
added  
for a  
selected  
location



# Data Plot

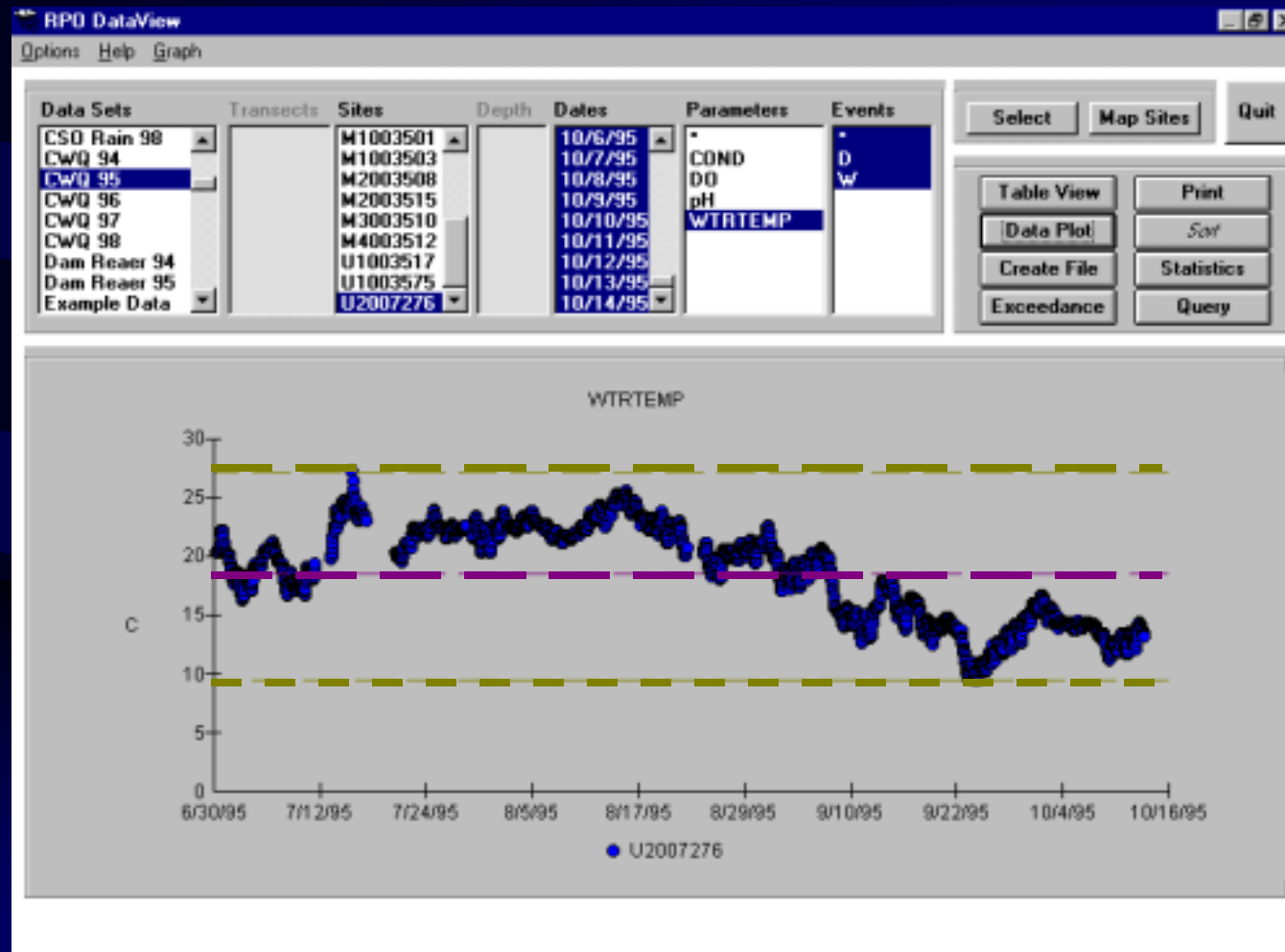
A plot of flow may be added for a selected location



# Data Plot

Statistics  
may be  
added to  
the plot

- min
- max
- mean
- standard deviation



# Create File

User  
selects text  
output  
criteria

Text File Output Criteria

File Layout	Field Length	Text Qualifier	Delimiter
<input checked="" type="radio"/> Regular	<input checked="" type="radio"/> Variable	<input checked="" type="radio"/> None	<input checked="" type="radio"/> Comma
<input type="radio"/> Cross Tab	<input type="radio"/> Fixed	<input type="radio"/> Double Quotes	<input type="radio"/> Space

Add field names to file

OK Cancel

# Exceedance

- Instances where values exceed a set value
- Water Quality Criteria Values
- Sites may be mapped

**Exceedance**

Parameter:  Value:

>  <

**Exceedance Instances**

Site	No.
M1003501	325
M1003503	109
M2003508	597
M2003515	120
M3003510	2958
M4003512	634

# Exceedance

Water  
Quality  
Criteria  
Values  
available for  
some  
parameters

**Water Quality Criteria**

Parameter:  CAS Number:

Threshold Values

Freshwater: Acute  mg/l Chronic  mg/l

Marine: Acute  mg/l Chronic  mg/l

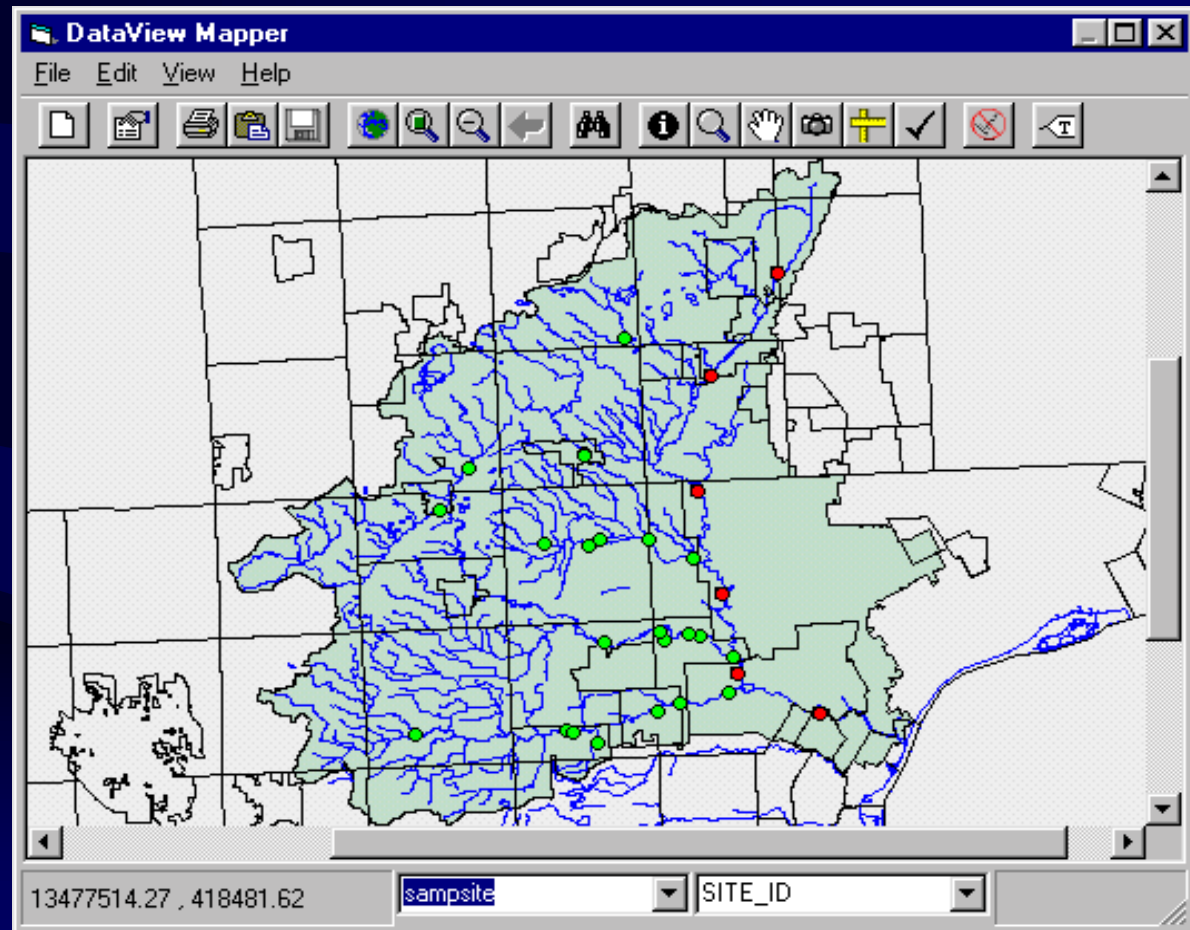
Human Health Carcinogenic Risk

Water  mg/l Organ  mg/l

*Source: United States Environmental Protection Agency BASINS 2.0*

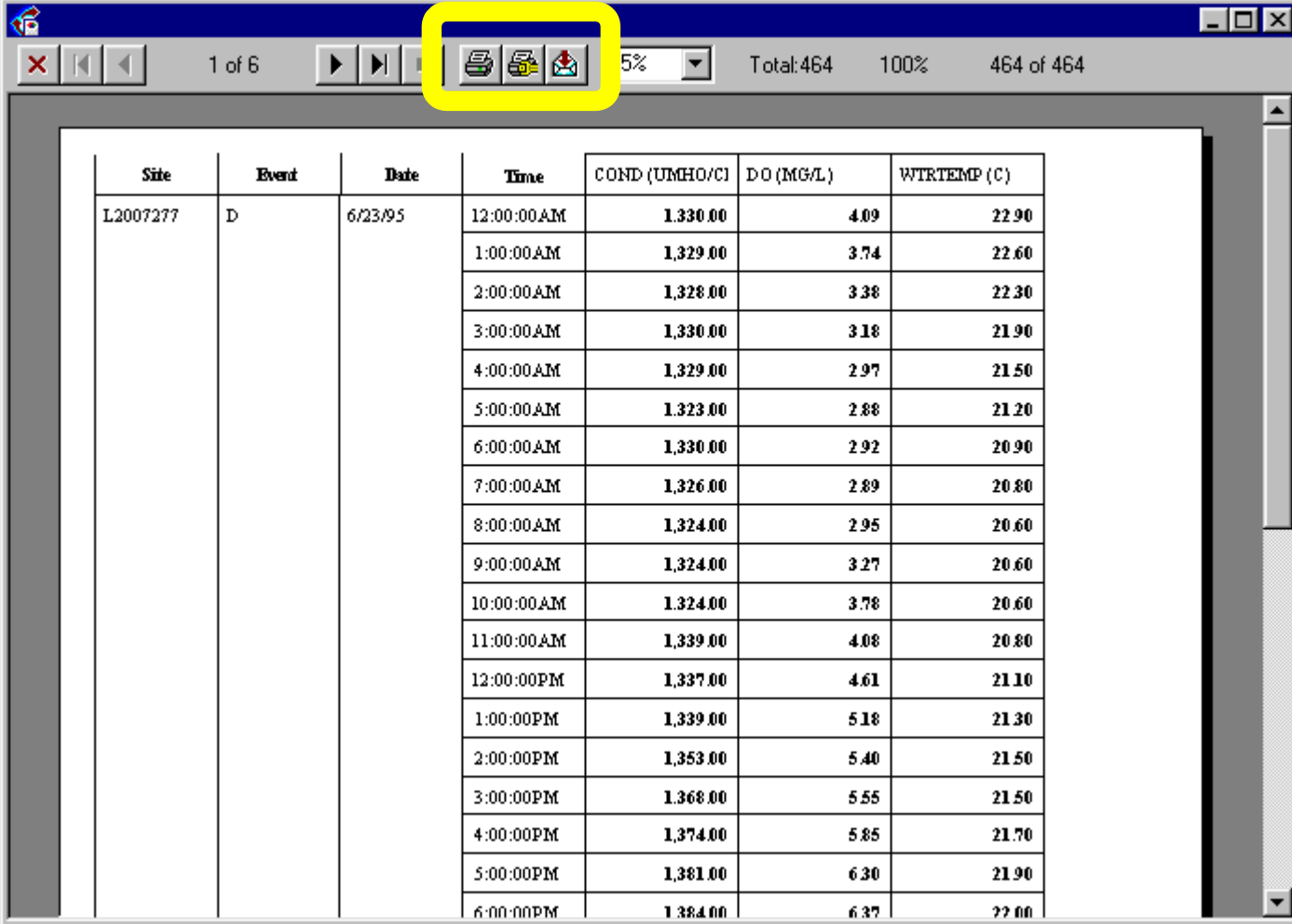
# Exceedance - Map Sites

- Map Sites Button
  - Red indicates sites that exceed values



# Print

- Export Data
- Print Setup
- Sends records to printer



The screenshot shows a software window with a toolbar at the top. A yellow box highlights three icons: a printer, a floppy disk, and a refresh symbol. The window displays a table with the following data:

Site	Event	Date	Time	COND (UMHO/CI)	DO (MG/L)	WTRTEMP (C)
L2007277	D	6/23/95	12:00:00AM	1.330.00	4.09	22.90
			1:00:00AM	1.329.00	3.74	22.60
			2:00:00AM	1.328.00	3.38	22.30
			3:00:00AM	1.330.00	3.18	21.90
			4:00:00AM	1.329.00	2.97	21.50
			5:00:00AM	1.323.00	2.88	21.20
			6:00:00AM	1.330.00	2.92	20.90
			7:00:00AM	1.326.00	2.89	20.80
			8:00:00AM	1.324.00	2.95	20.60
			9:00:00AM	1.324.00	3.27	20.60
			10:00:00AM	1.324.00	3.78	20.60
			11:00:00AM	1.339.00	4.08	20.80
			12:00:00PM	1.337.00	4.61	21.10
			1:00:00PM	1.339.00	5.18	21.30
			2:00:00PM	1.353.00	5.40	21.50
			3:00:00PM	1.368.00	5.55	21.50
			4:00:00PM	1.374.00	5.85	21.70
			5:00:00PM	1.381.00	6.30	21.90
			6:00:00PM	1.384.00	6.37	22.00

# Sort

- Three level sort
  - site
  - date/time
  - parameter
- Ascending or Descending
- View Option must be “Record”

The image shows a 'Sort' dialog box with a light gray background. It features three columns for sorting levels: Primary, Secondary, and Tertiary. Each column contains four radio button options: Date/time, Site ID, Parameter, and Value. In the Primary column, 'Site ID' is selected. In the Secondary column, 'Date/time' is selected. In the Tertiary column, 'Parameter' is selected. To the right of these columns is a section for sorting order, with 'Ascending' selected and 'Descending' unselected. At the bottom right are 'OK' and 'Cancel' buttons.

Primary	Secondary	Tertiary
<input type="radio"/> Date/time	<input checked="" type="radio"/> Date/time	<input type="radio"/> Date/time
<input checked="" type="radio"/> Site ID	<input type="radio"/> Site ID	<input type="radio"/> Site ID
<input type="radio"/> Parameter	<input type="radio"/> Parameter	<input checked="" type="radio"/> Parameter
<input type="radio"/> Value	<input type="radio"/> Value	<input type="radio"/> Value

Ascending  
Descending

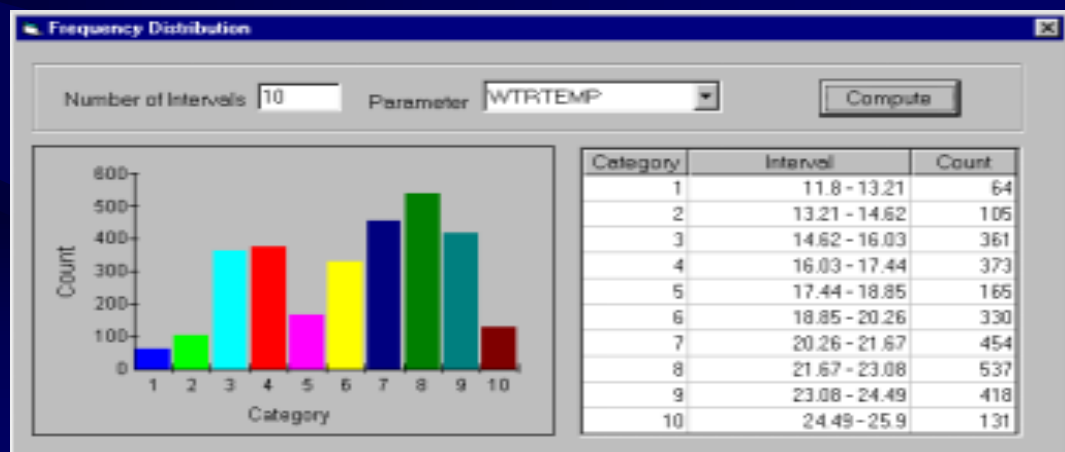
OK Cancel

# Statistics

- Basic Statistics
  - Average
  - Minimum
  - Maximum
  - Count
  - Sum
  - Standard Deviation
  - Variance

- Frequency Distribution

<i>Freq. Dist.</i>	OND (umho/cm)	DO (mg/l)	pH (pH)	WTRTEMP (c)
Avg	822.949	5.476	7.465	19.814
Min	3.00	0.00	6.22	11.80
Max	1535.00	9.22	8.60	25.90
Count	2938.00	2601.00	1421.00	2938.00
Sum	2417824.00	14242.00	10607.46	58212.50
StDev	291.89	1.672	0.318	3.291
Variance	85199.752	2.797	0.101	10.834



# Query

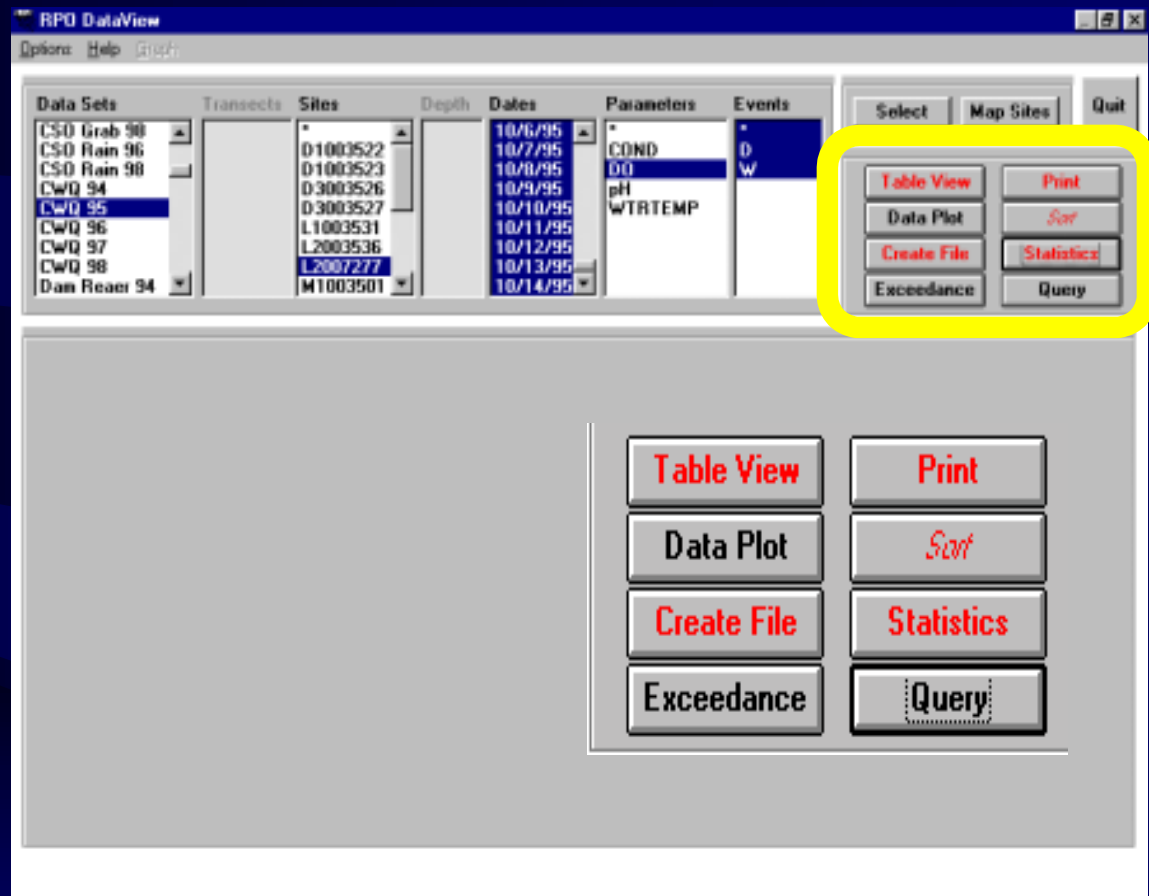
Create a subset of records from current selection set

The image shows a 'Query' dialog box with a title bar containing a folder icon and the text 'Query'. The dialog has a standard Windows-style title bar with minimize, maximize, and close buttons. The main area is divided into several sections:

- Parameter:** A list box containing the text 'DO'.
- Value:** A text input field containing the number '5'.
- Comparison Operators:** A vertical column of radio buttons with the following labels: '=', '>', '<', '>=', '<=', and '<>'. The '>=' option is selected.
- Logical Operators:** Two buttons labeled 'AND' and 'OR' are positioned to the right of the comparison operators.
- Query Statement:** A text area containing the SQL-like expression 'DO >= 5'. Below this text area is a 'Clear' button.
- Execution Buttons:** At the bottom of the dialog are two buttons: 'Execute' and 'Cancel'.

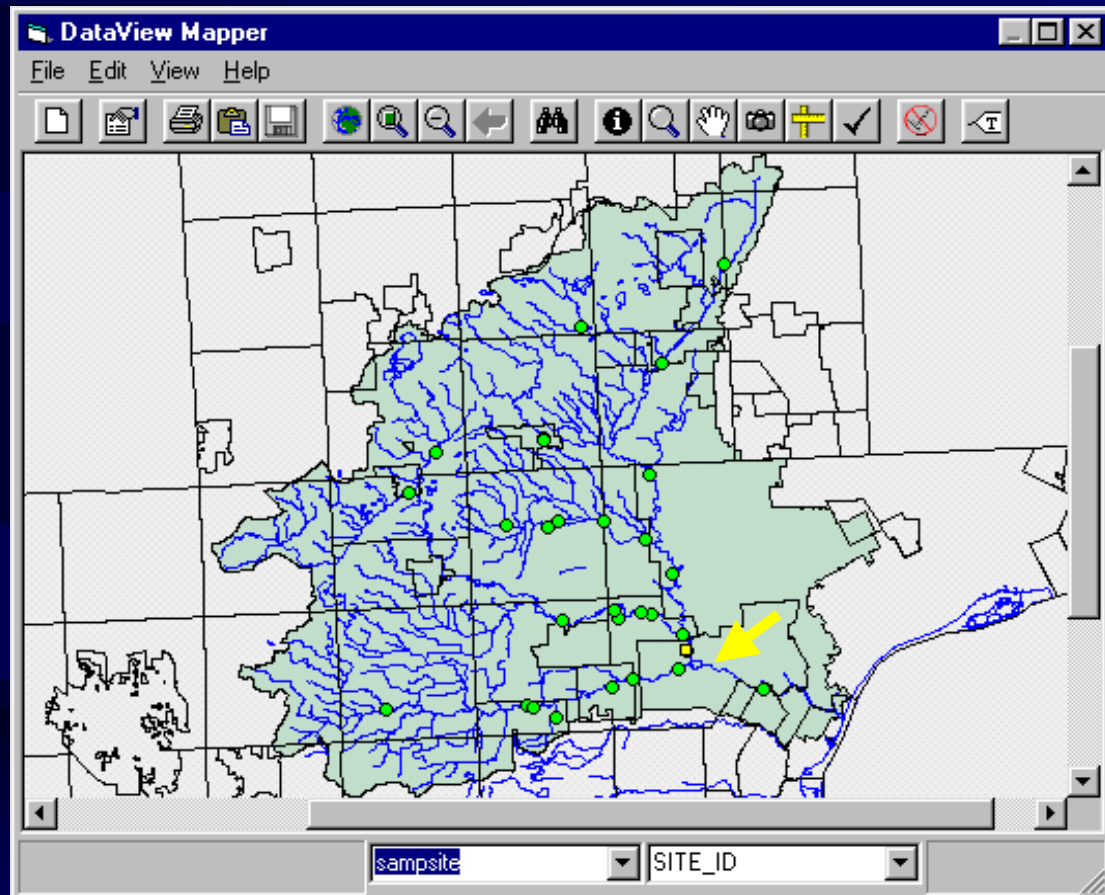
# Query

- **Data Option Buttons Available**
  - Table View
  - Create File
  - Print
  - Sort
  - Statistics



# Map Sites

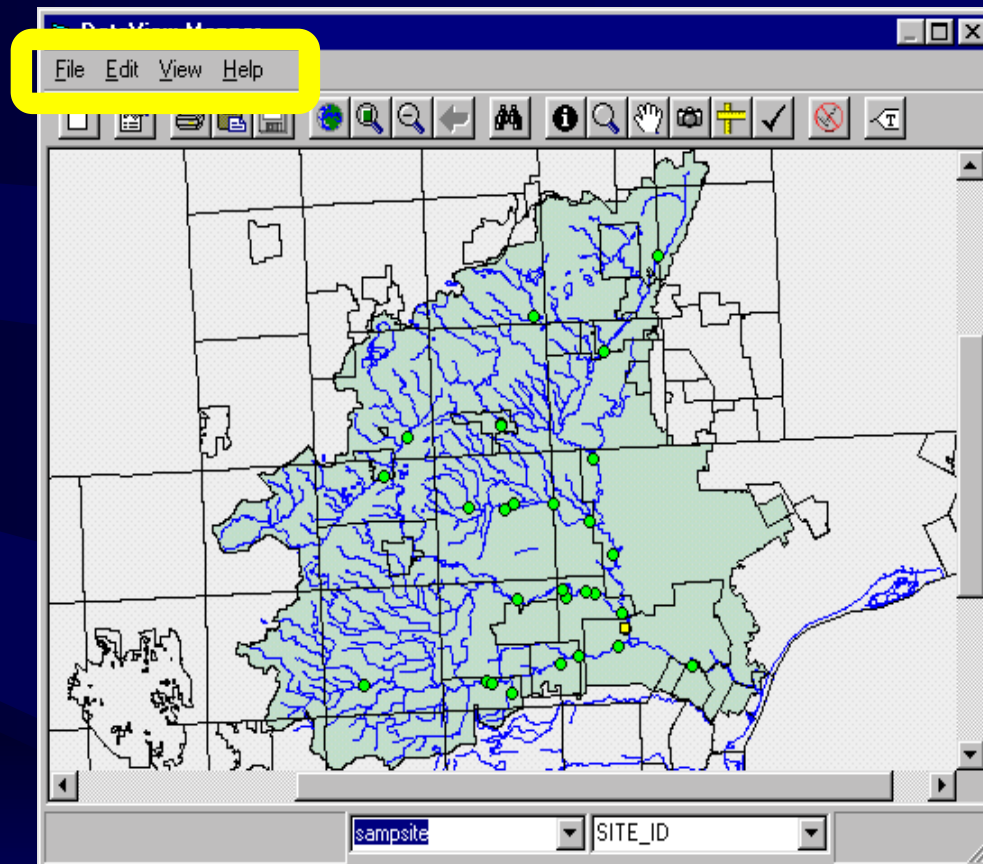
- Selected site represented by yellow square
- Other sites represented by green circles



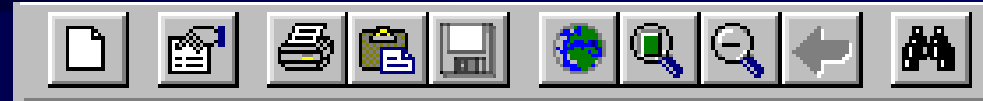
# Map Menus

## File

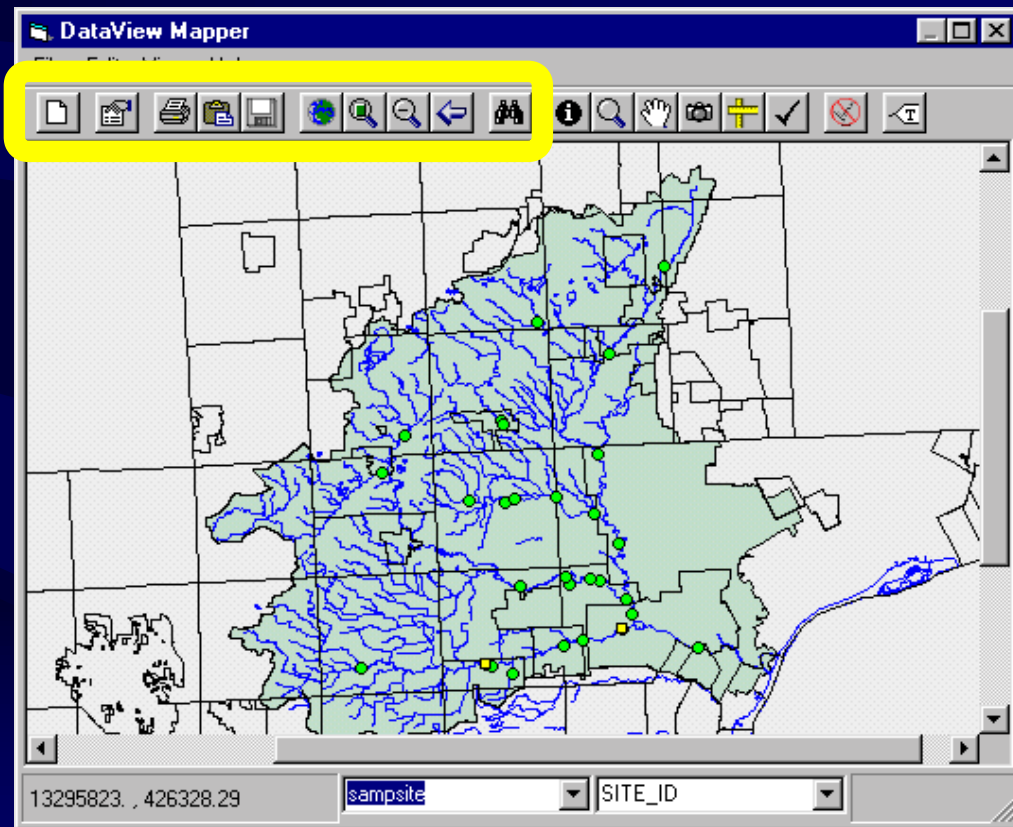
- Export Map
- New
- Print Map
- Properties
- Save Basemap
- Exit
- Edit
  - Find
- View
  - Full Extent
  - Current Layer
- Help



# Buttons

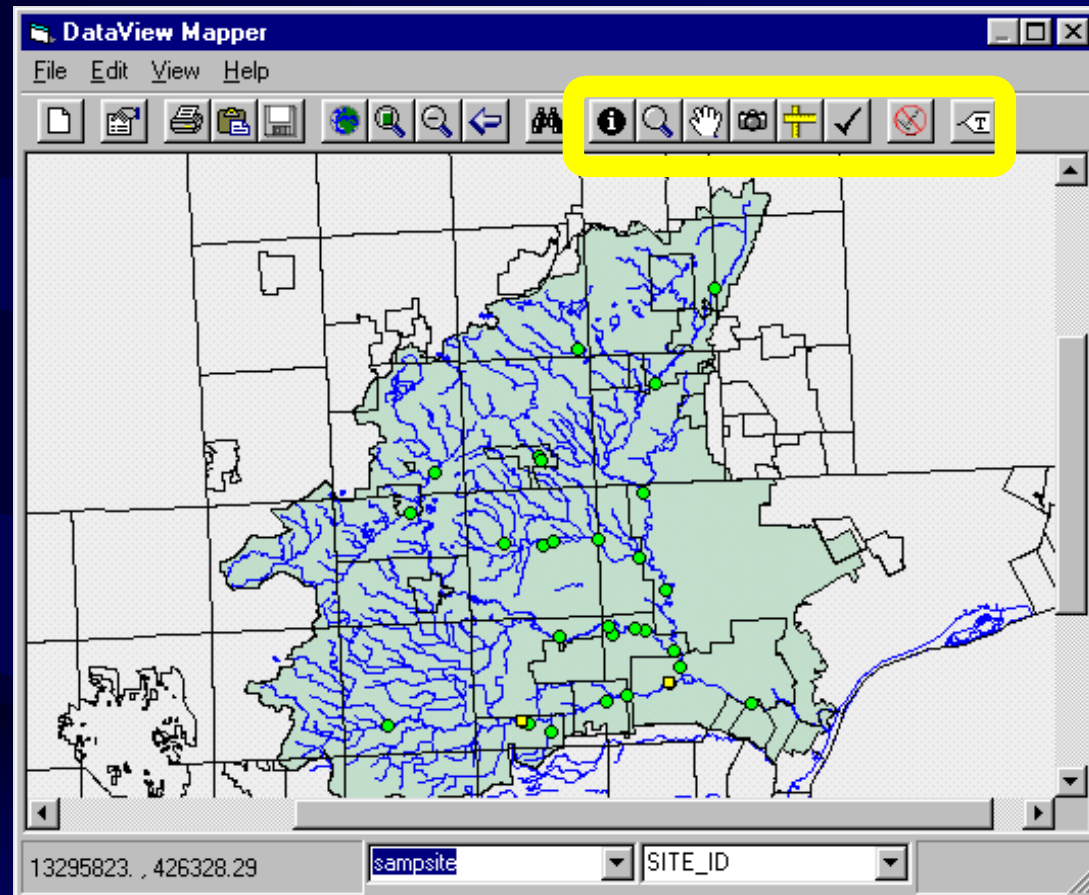
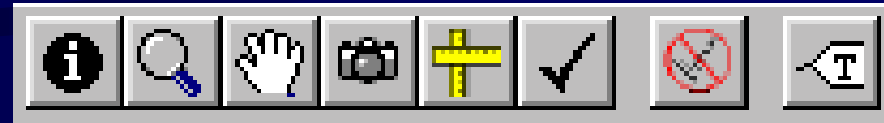


- Buttons carry out actions
  - New Layer
  - Properties
  - Print
  - Export Map
  - Save Basemap
  - Zoom to Extents
  - Zoom to Layers
  - Zoom Out
  - Zoom Previous



# Tools

- Tools work interactively with map
  - Identify
  - Zoom Box
  - Pan
  - Photo
  - Distance
  - Select
  - Clear Select
  - Label



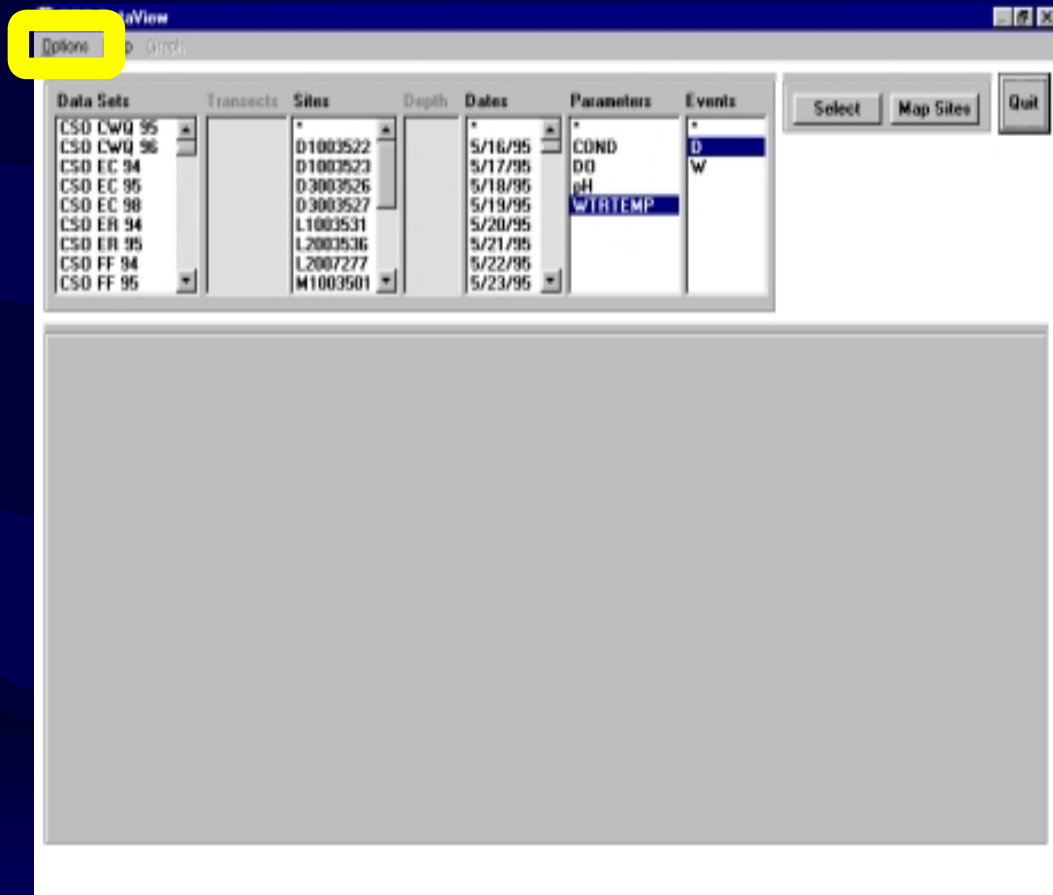
# Options Menu

RPO DataView

Options

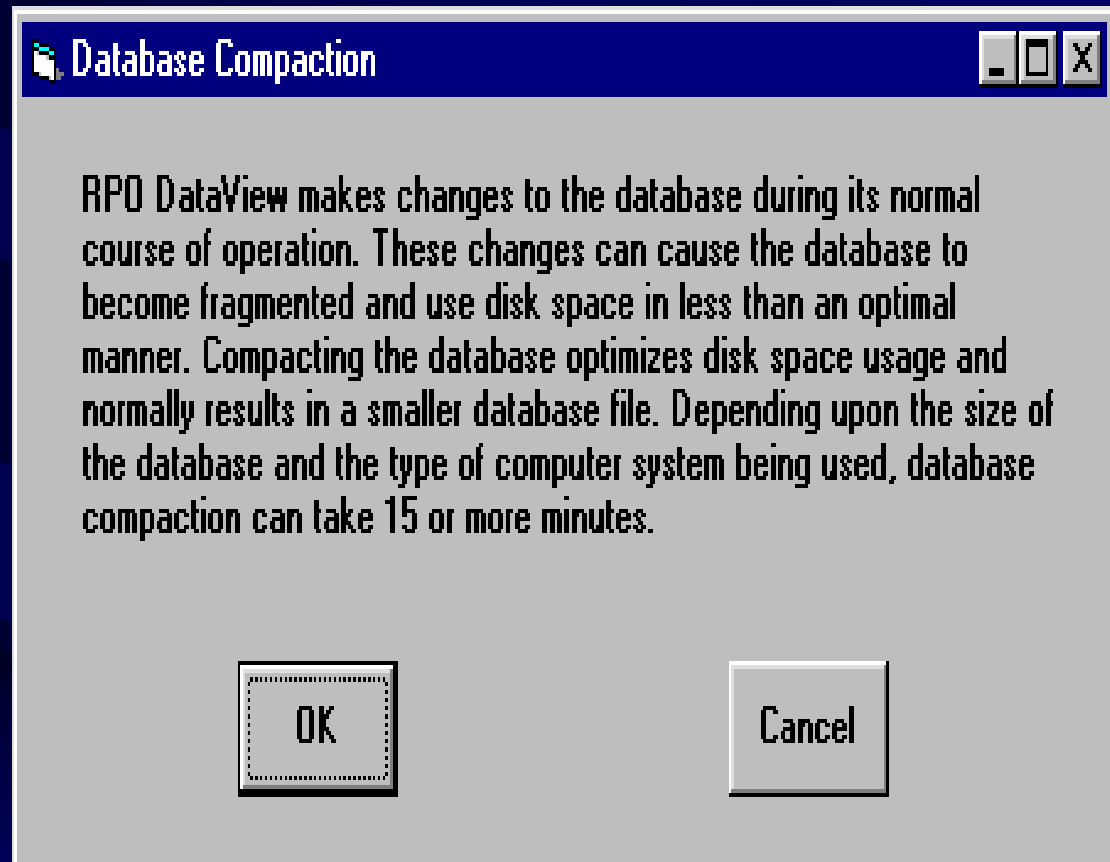
## Options Menu

- Compact Database
- Data Sets
- Flag Table
- Non-Numeric Data
- Printer Settings
- Table View



# Compact Database

- Optimizes disk space
- Creates smaller database file



# Data Set

## Create

- Allows user to create custom data sets
- Buttons in pink indicate selection is required

The screenshot shows a software dialog box titled "Create Data Sets". It features a list of data sets on the left, including "CSD CWQ 95", "CSD CWQ 96", "CSD EC 94", "CSD EC 95", "CSD EC 98", "CSD ER 94", "CSD ER 95", and "CSD FF 94". The main area is organized into columns for "Data Sets", "Sites", "Transects", "Depths", "Events", "Date Range", "Parameters", and "Interval". The "Date Range" column contains "Start Date" and "End Date" input fields. The "Interval" column has radio buttons for "hour" and "day", and a "Value" section with radio buttons for "Average" and "Sum". At the bottom, there are buttons for "Update Sites", "Update Transects", "Update Depths", "Update Events", "Update Dates", and "Update Parameters". The "Update Sites", "Update Dates", and "Update Parameters" buttons are highlighted in pink. At the very bottom are "Create" and "Cancel" buttons.

# Data Set

## Delete/Edit

- Allows user to edit information in data sets
- Allows user to delete data set from database

**Delete/Edit Data Set Info**

Name:

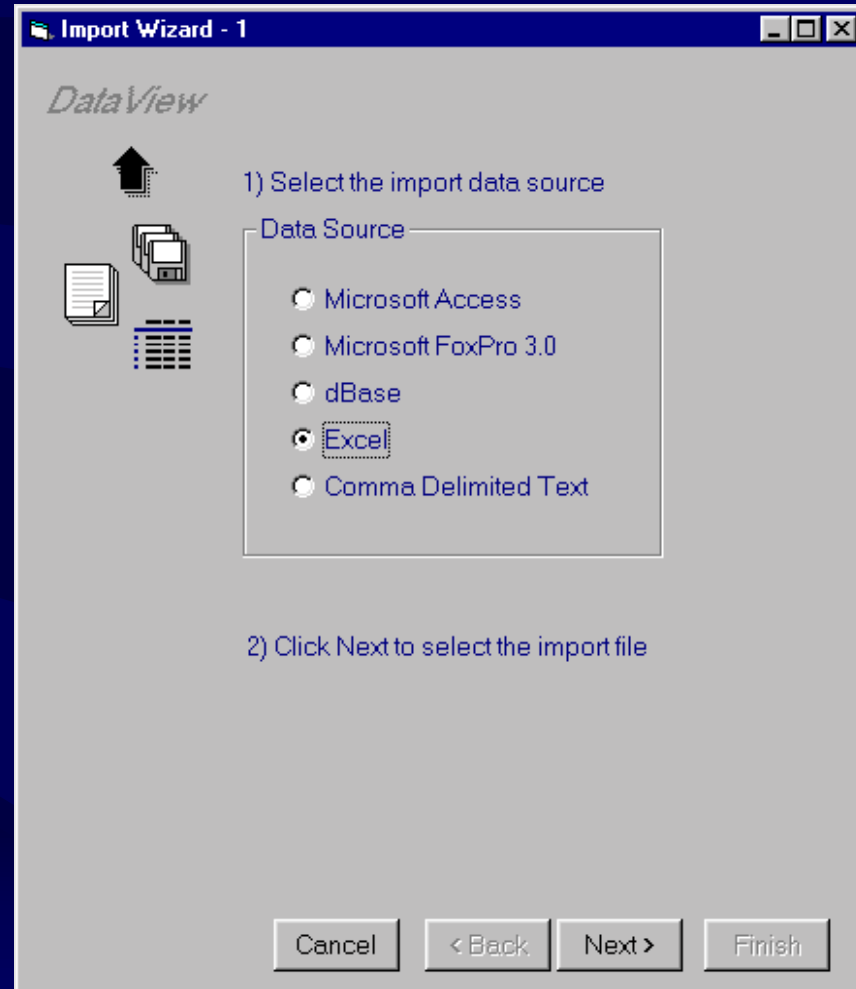
Map:

Data Set Description:

# Data Set

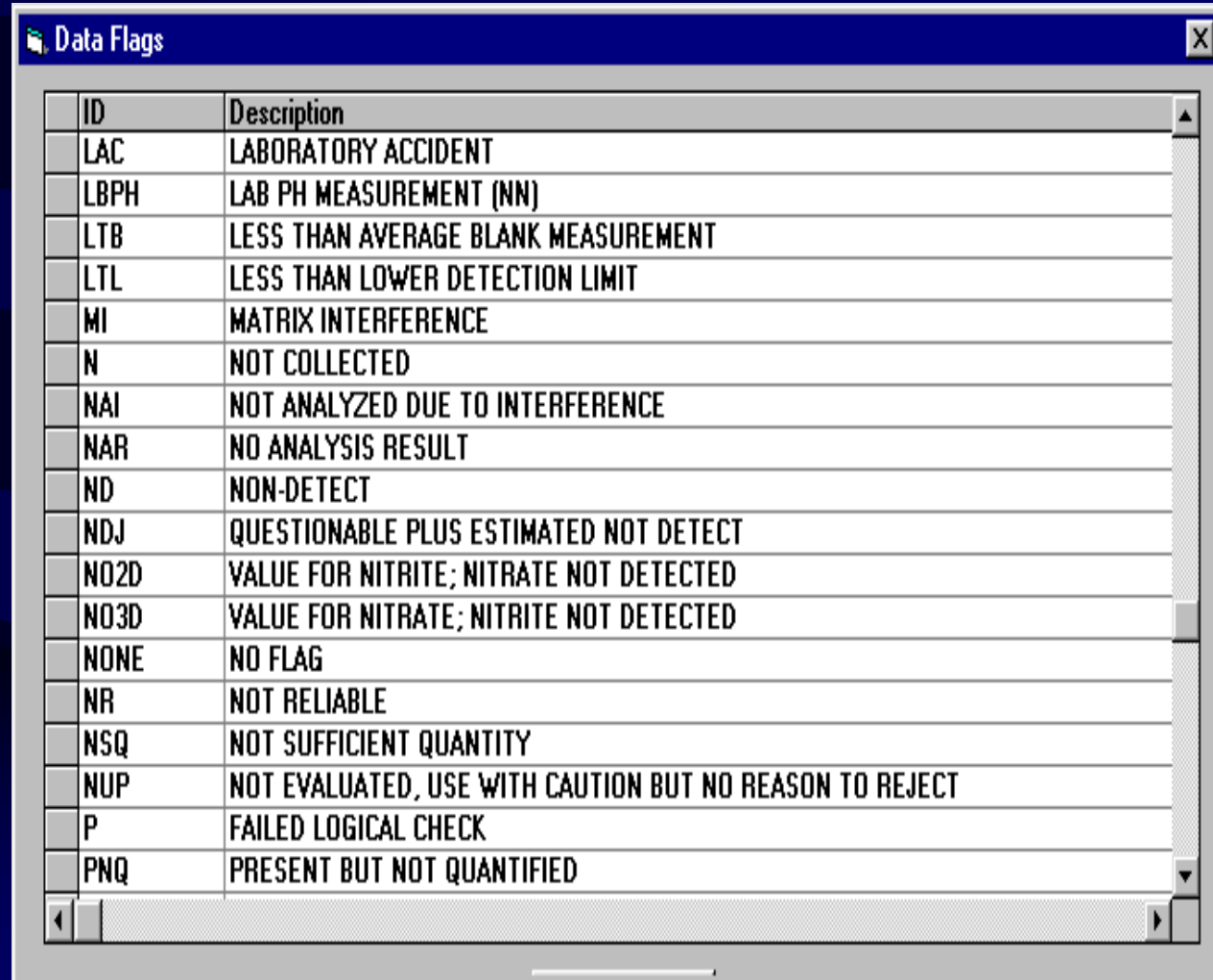
## Import

- Allows user to import data into application
- Acceptable Formats
  - Microsoft Access
  - Microsoft FoxPro 3.0
  - dBase
  - Excel
  - Comma delimited text
- Example Exercise to follow



# Data Flags

- Only visible when using “Record” view option



The screenshot shows a window titled "Data Flags" with a table containing the following data:

ID	Description
LAC	LABORATORY ACCIDENT
LBPH	LAB PH MEASUREMENT (NN)
LTB	LESS THAN AVERAGE BLANK MEASUREMENT
LTL	LESS THAN LOWER DETECTION LIMIT
MI	MATRIX INTERFERENCE
N	NOT COLLECTED
NAI	NOT ANALYZED DUE TO INTERFERENCE
NAR	NO ANALYSIS RESULT
ND	NON-DETECT
NDJ	QUESTIONABLE PLUS ESTIMATED NOT DETECT
NO2D	VALUE FOR NITRITE; NITRATE NOT DETECTED
NO3D	VALUE FOR NITRATE; NITRITE NOT DETECTED
NONE	NO FLAG
NR	NOT RELIABLE
NSQ	NOT SUFFICIENT QUANTITY
NUP	NOT EVALUATED, USE WITH CAUTION BUT NO REASON TO REJECT
P	FAILED LOGICAL CHECK
PNQ	PRESENT BUT NOT QUANTIFIED

# Non-Numeric Data

- Allows user to associate files
  - text files
  - graphics
  - photographs

Non-numeric Data Add/Delete

Add Delete View Doc Exit

Site ID: L2007277

Doc Type: photo

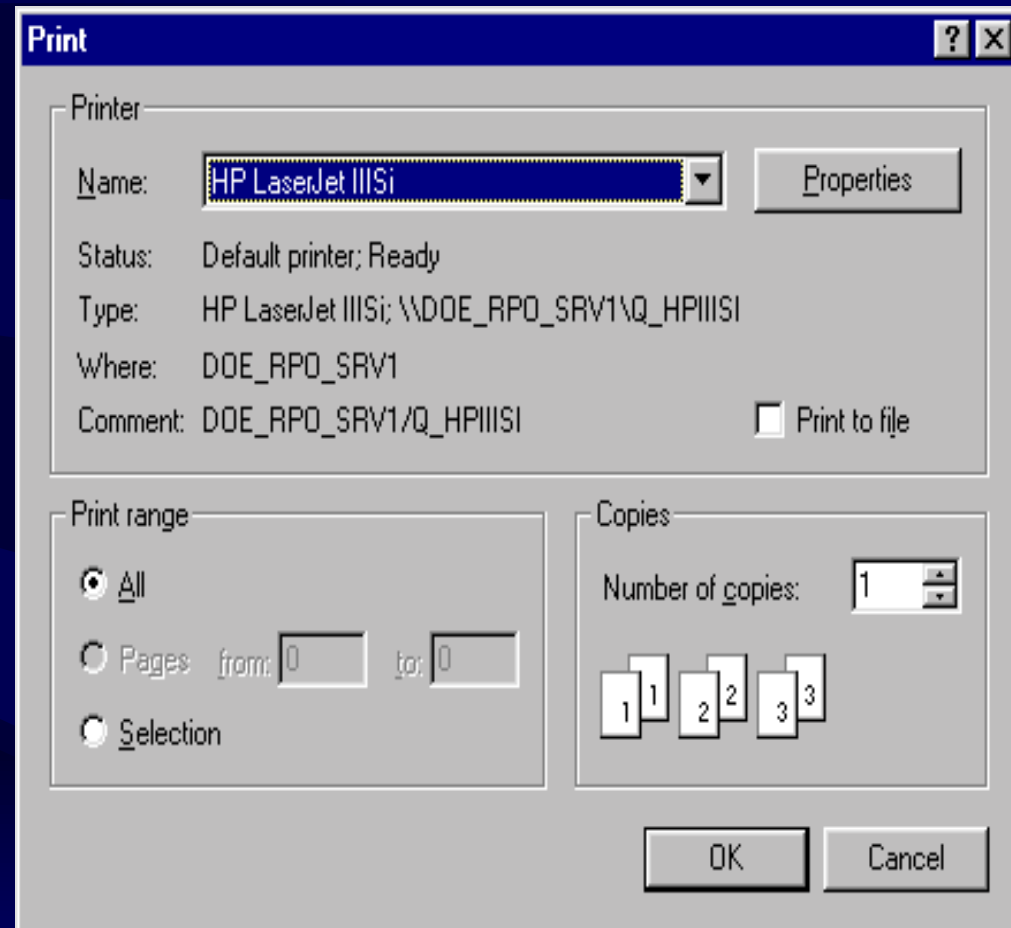
File Name:

Document Description:  
photo looking downstream

OK Quit

# Printer Settings

- Standard MS Windows printer properties dialog box



# Exercise 1 - Functionality

In this exercise you will learn to retrieve data using DataView. You will select the appropriate data set, time frame, and parameters. You will map the sites and use the associated mapping tools and buttons.

# Exercise 1 - Functionality

- A typical application for DataView would be to review dry weather dissolved Oxygen and temperature readings in the Rouge River for June 16-30, 1995 in the Southfield/Beverly Hills area.

# Main Menu

- Choose the Data Set from the list boxes
- Press F1 to display details about selected data set
- Double click on CWQ95 to select

The screenshot shows the RPD DataView application window. The main window has a menu bar with 'Options', 'Help', and 'Graph'. Below the menu bar is a table with columns: Data Sets, Transsects, Sites, Depth, Dates, Parameters, and Events. The 'Data Sets' column is expanded to show a list of data sets, with 'CWQ 95' selected. To the right of the table are three buttons: 'Select', 'Map Sites', and 'Quit'. Below the main window, a smaller dialog box titled 'DataView' is open, displaying the following text: '1995, hourly water temperature, conductivity, pH and dissolved oxygen data collected at 16 continuous monitoring stations throughout the Rouge River watershed.' An 'OK' button is centered at the bottom of the dialog box.

Data Sets	Transsects	Sites	Depth	Dates	Parameters	Events
CSO Rain 98						
CWQ 94						
<b>CWQ 95</b>						
CWQ 96						
CWQ 97						
CWQ 98						
Dam Reaser 94						
Dam Reaser 95						
Example Data						

Buttons: Select, Map Sites, Quit

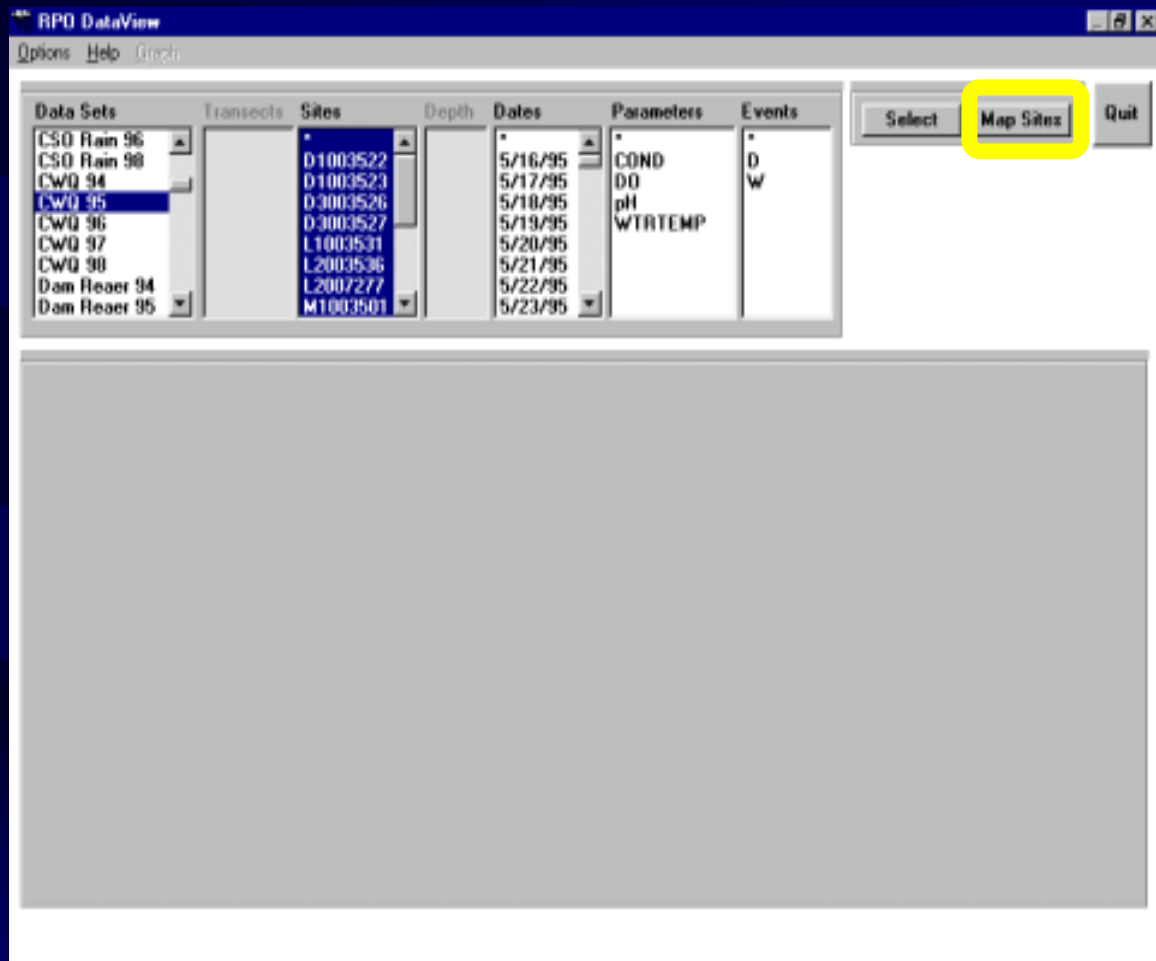
Dialog Box: DataView

1995, hourly water temperature, conductivity, pH and dissolved oxygen data collected at 16 continuous monitoring stations throughout the Rouge River watershed.

OK

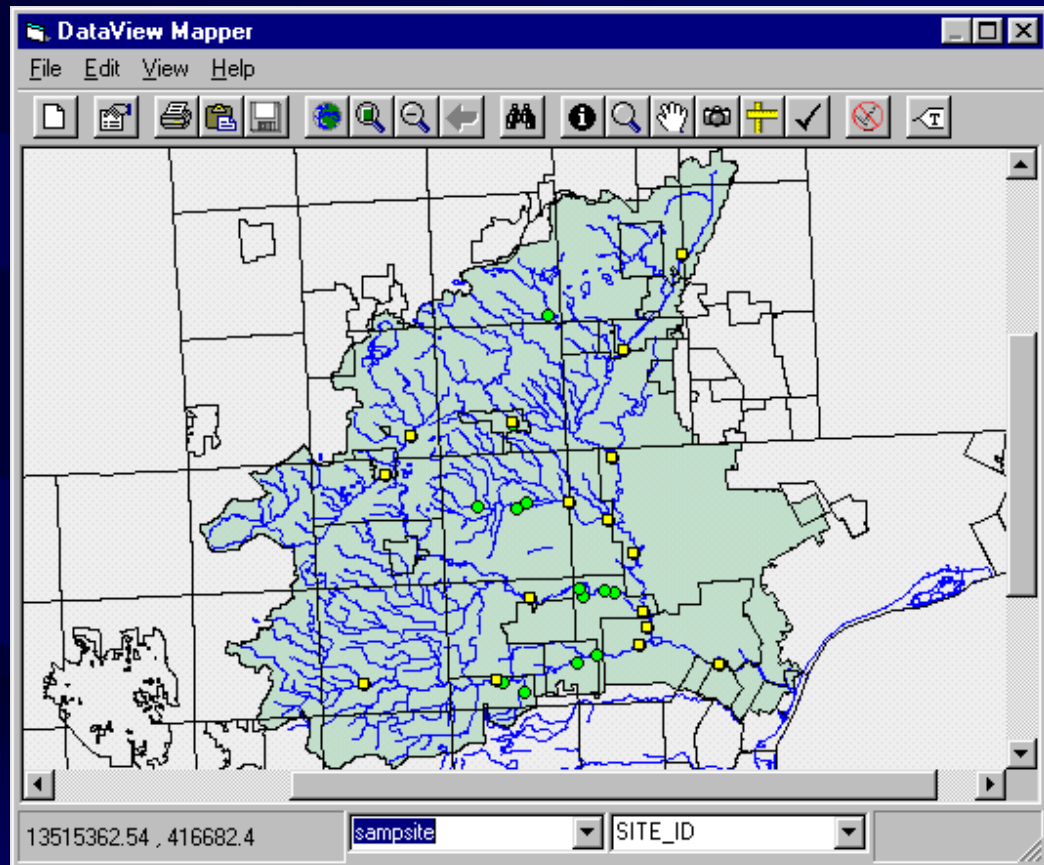
# Map Sites

- Select all sites by choosing \* at top of list
- Click on Map Sites Button



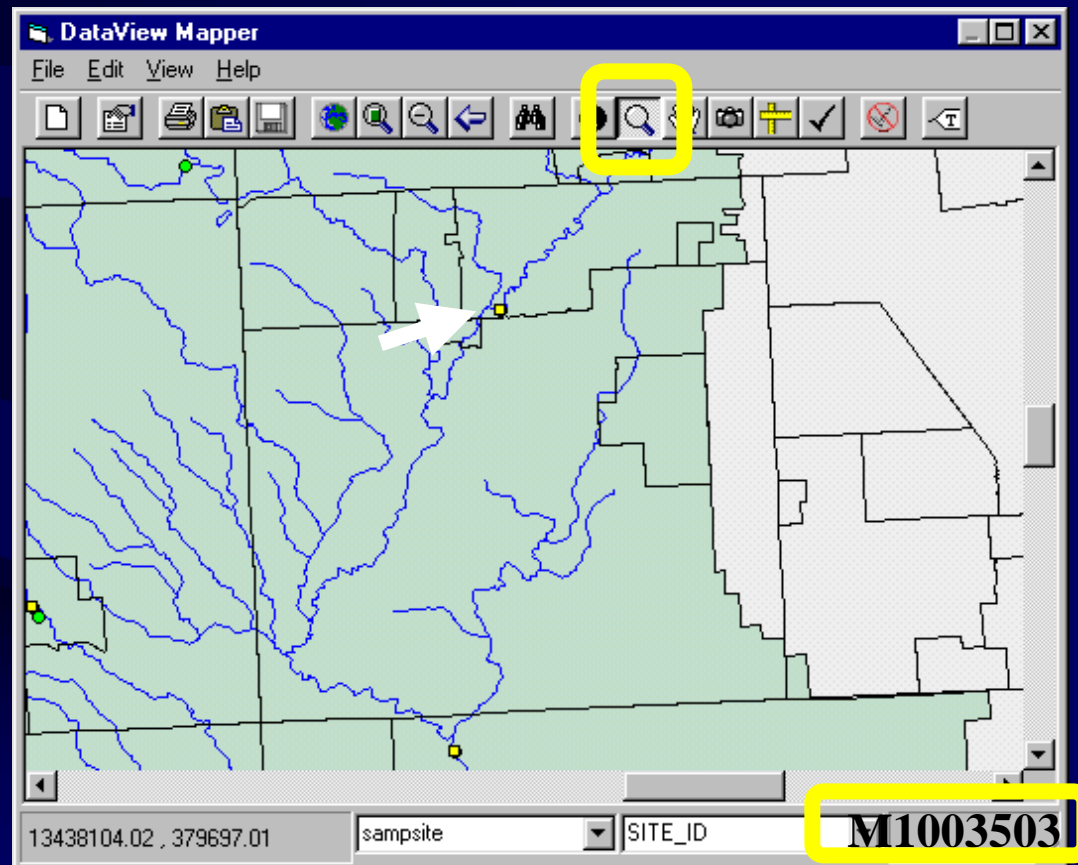
# Map Sites

- Sites with data are indicated by yellow squares
- Sites that do not have data in the selected data set are green circles



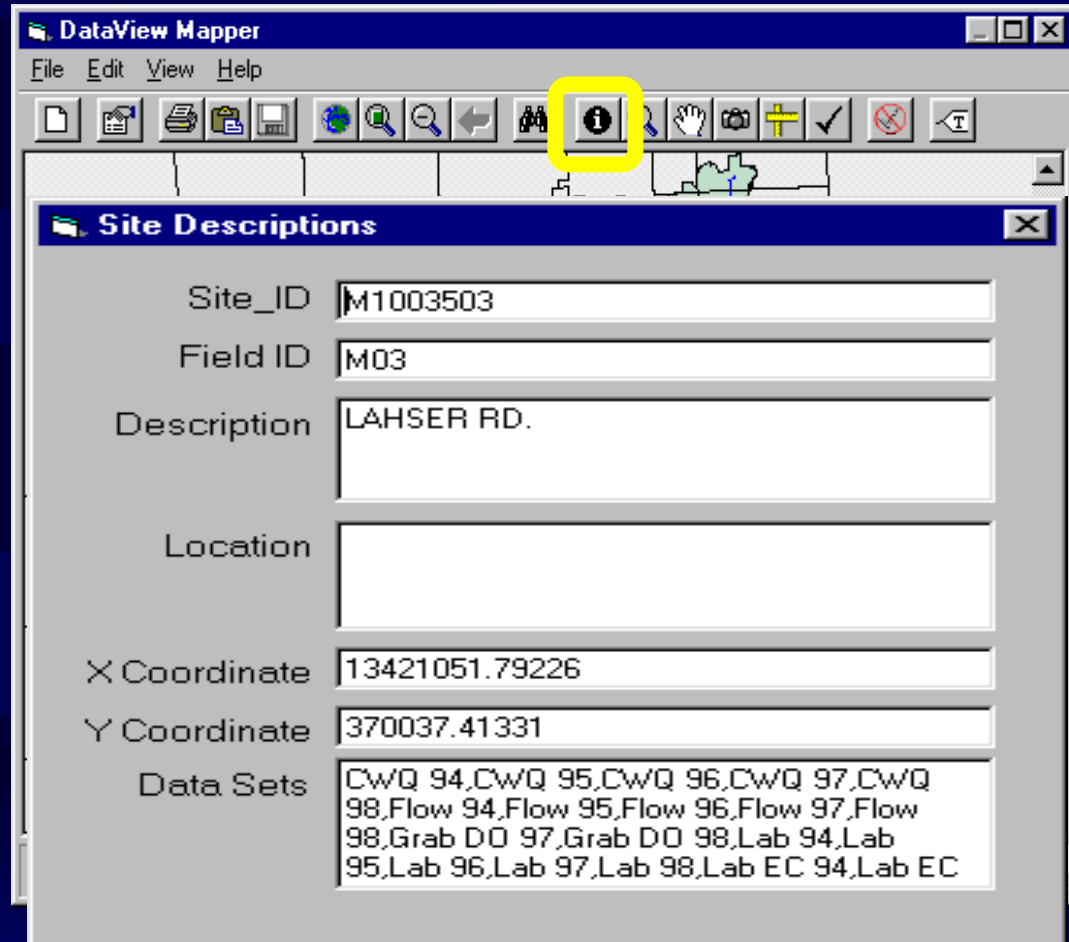
# Map Sites

- Use the “Zoom Box” tool to zoom into the Southfield area
- Cursor over site indicates site name in bottom right corner



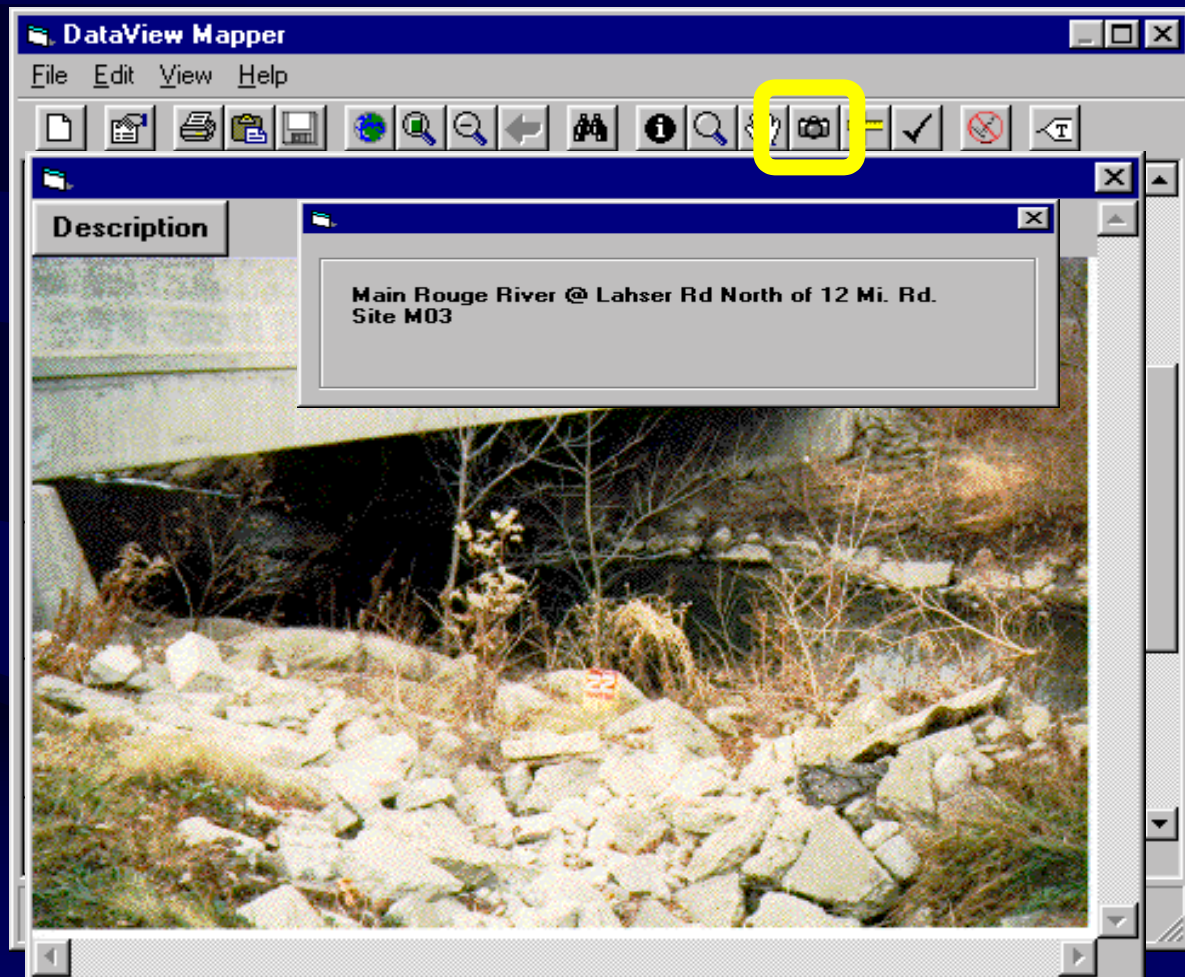
# Map Sites

- Use the “Identify” tool to view the site description



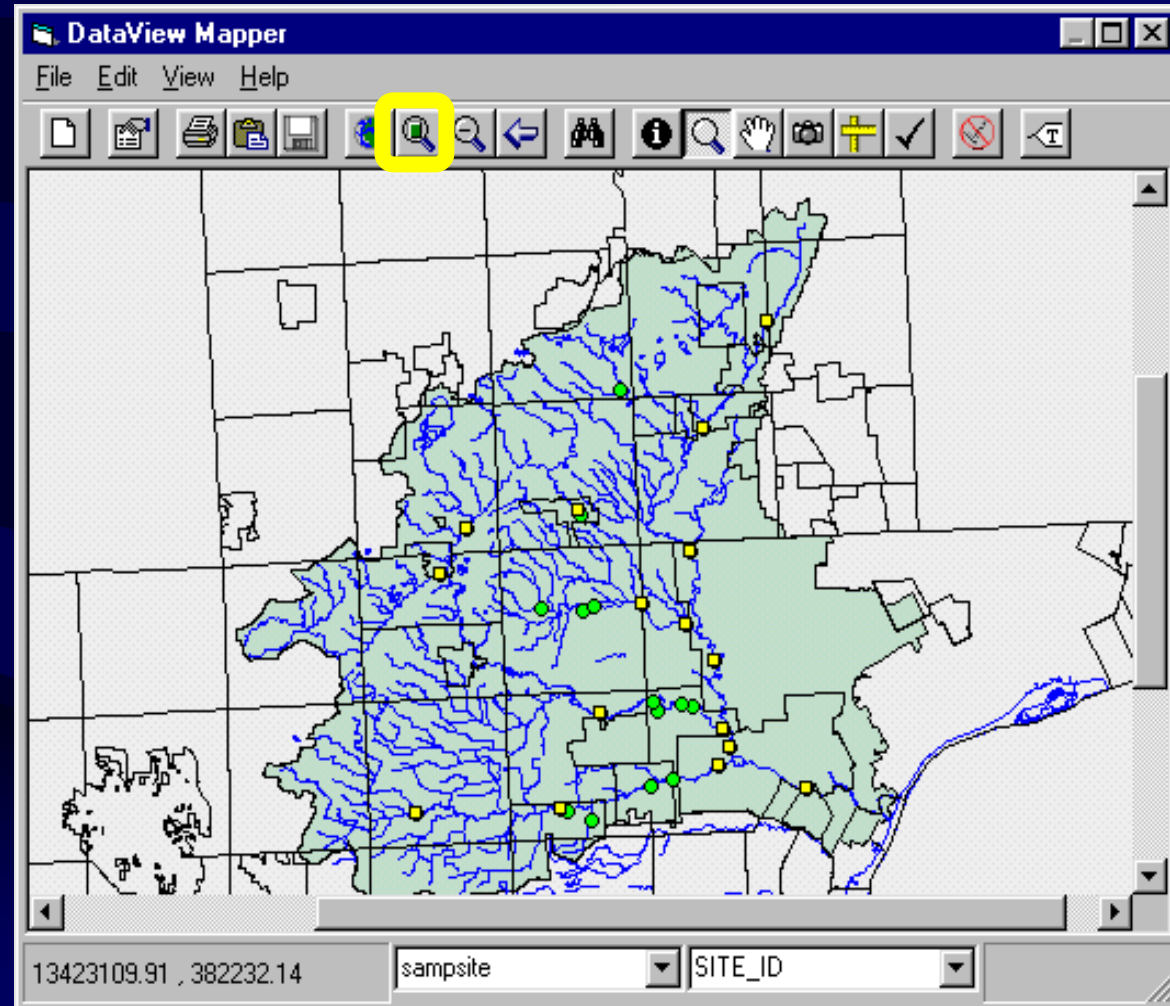
# Map Sites

- Use the “Photo” tool to view a photo of the selected location
- Click on the Description box to view site description



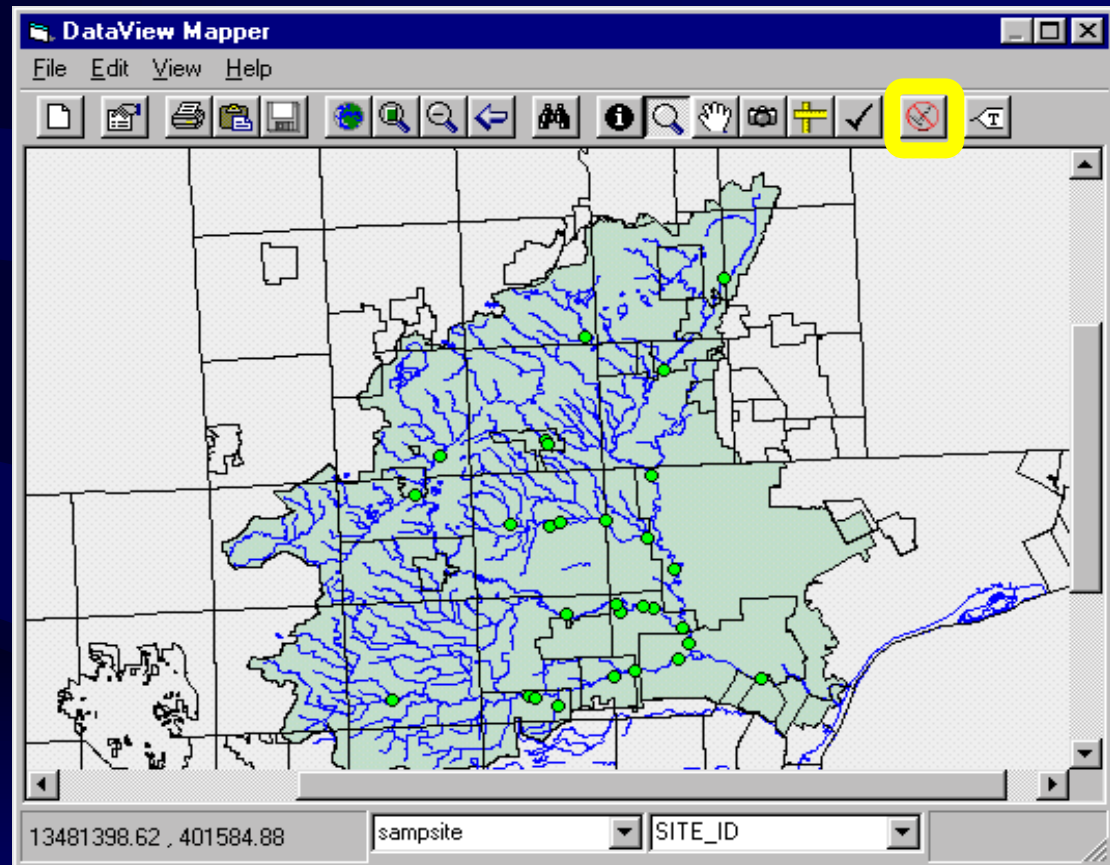
# Map Sites

- Use the “Zoom to Layer” button to return to original view



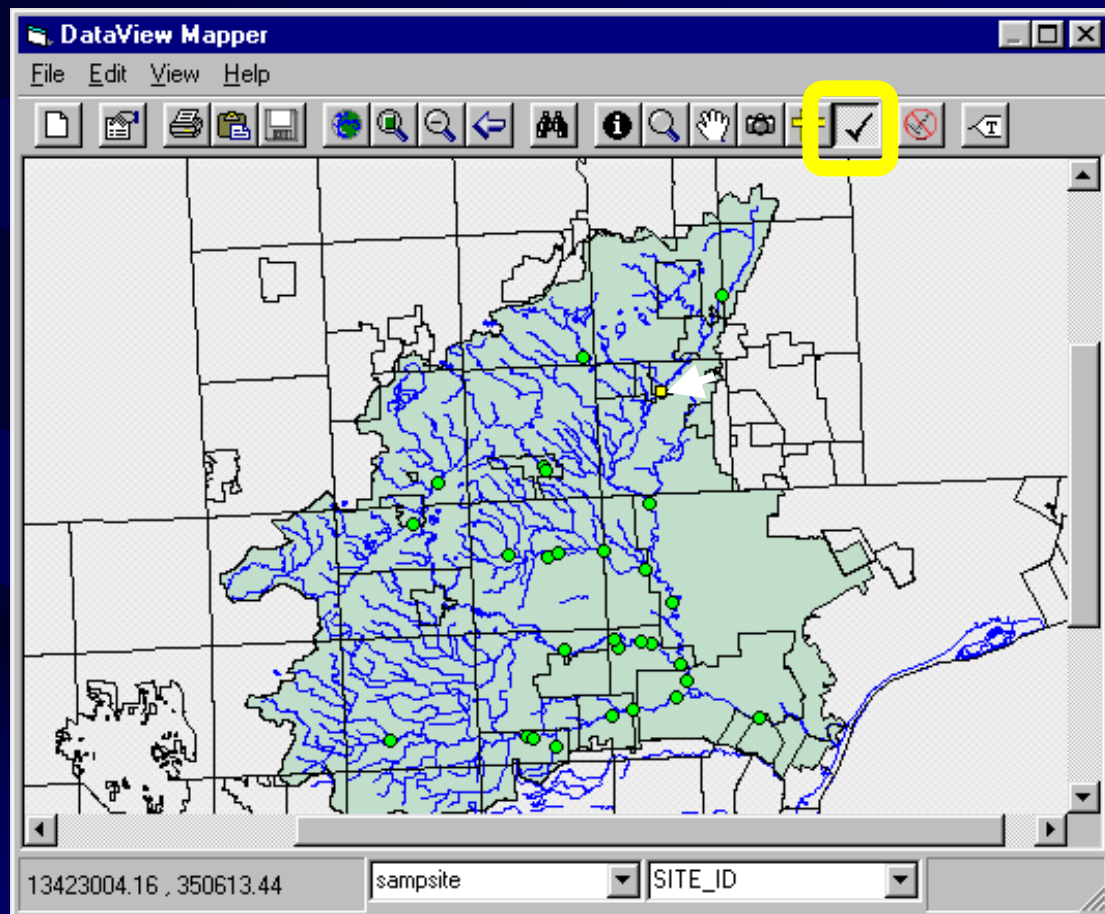
# Map Sites

- Use the “Unselect” tool to unselect all features
- All sites will be green circles after choosing “Unselect”



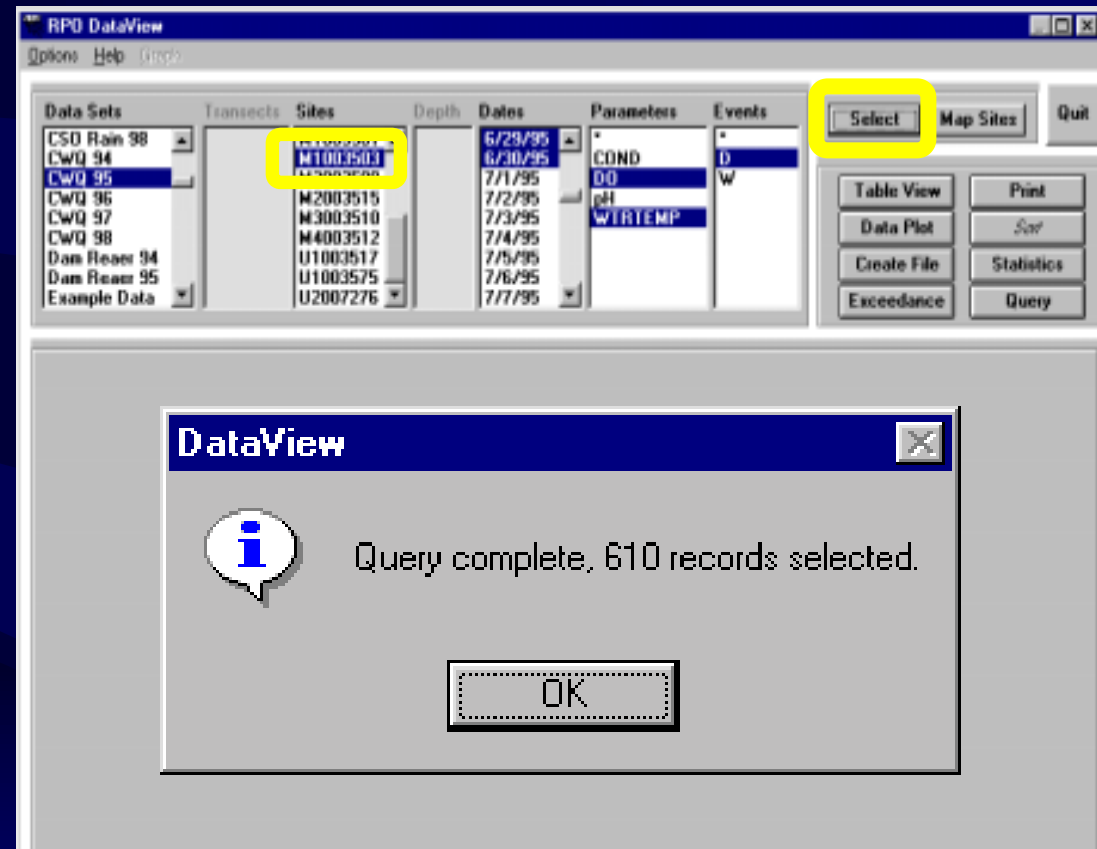
# Map Sites

- Use the “Select” tool to choose the desired location (M1003503)
- Close the Map Sites Window



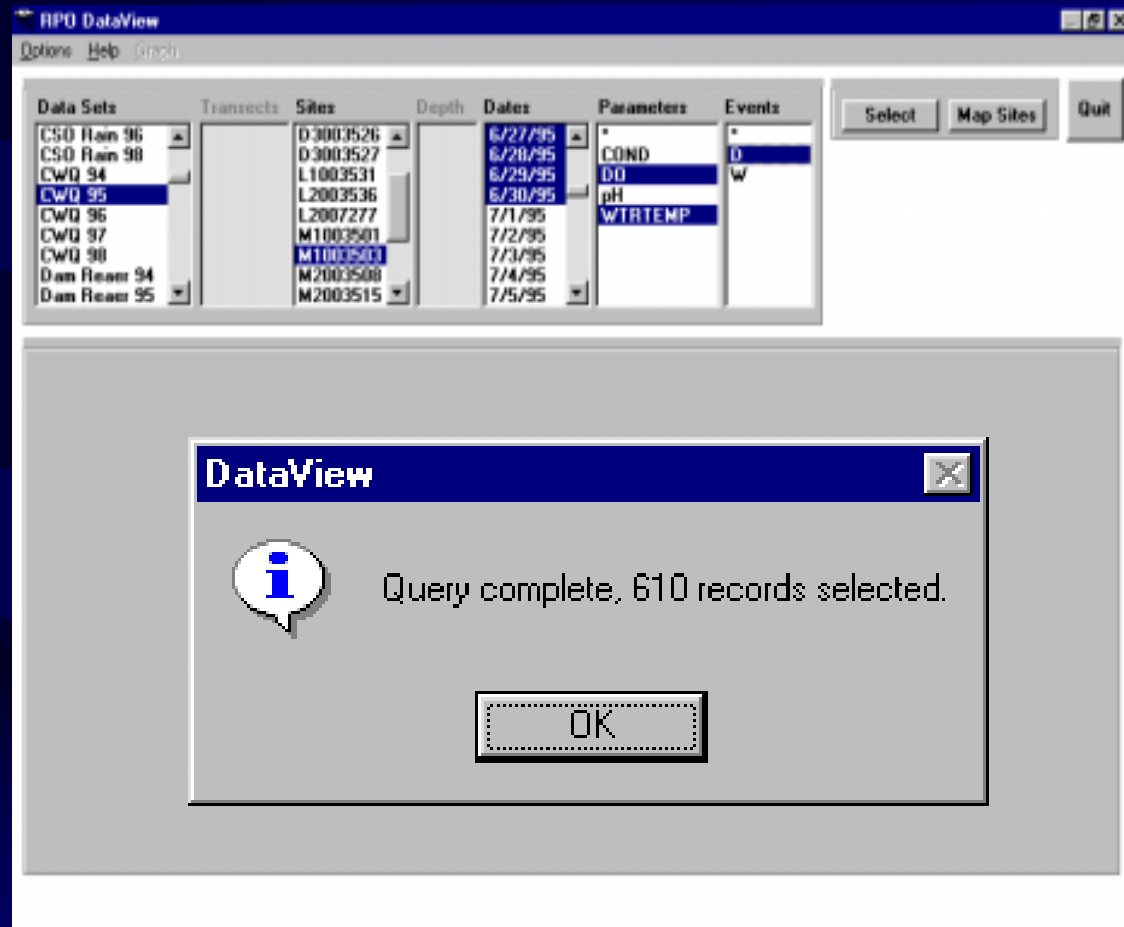
# Main Menu

- M1003503 will be chosen under site description
- Select Date Range (6/15 - 6/30/95)
- Select Parameters (DO and WaterTemp)
- Select Events (Dry)
- Choose “Select”



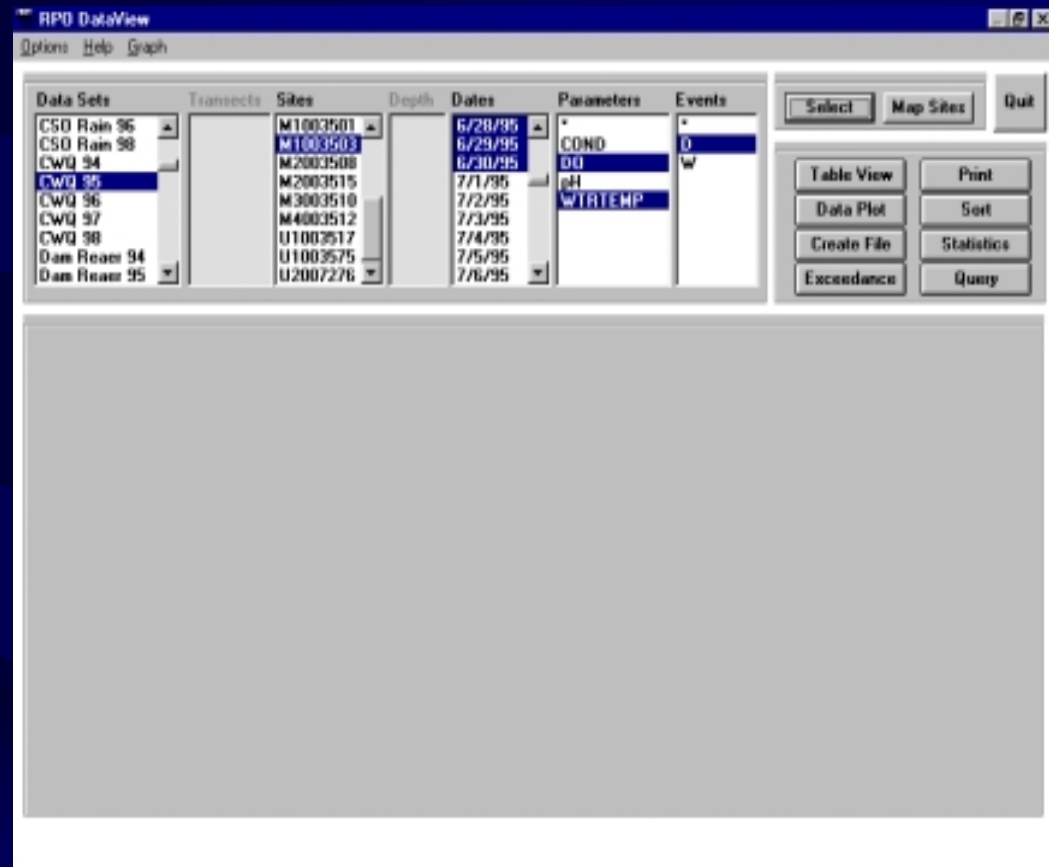
# Main Menu

- DataView will return a message indicating query is complete, 610 records selected.



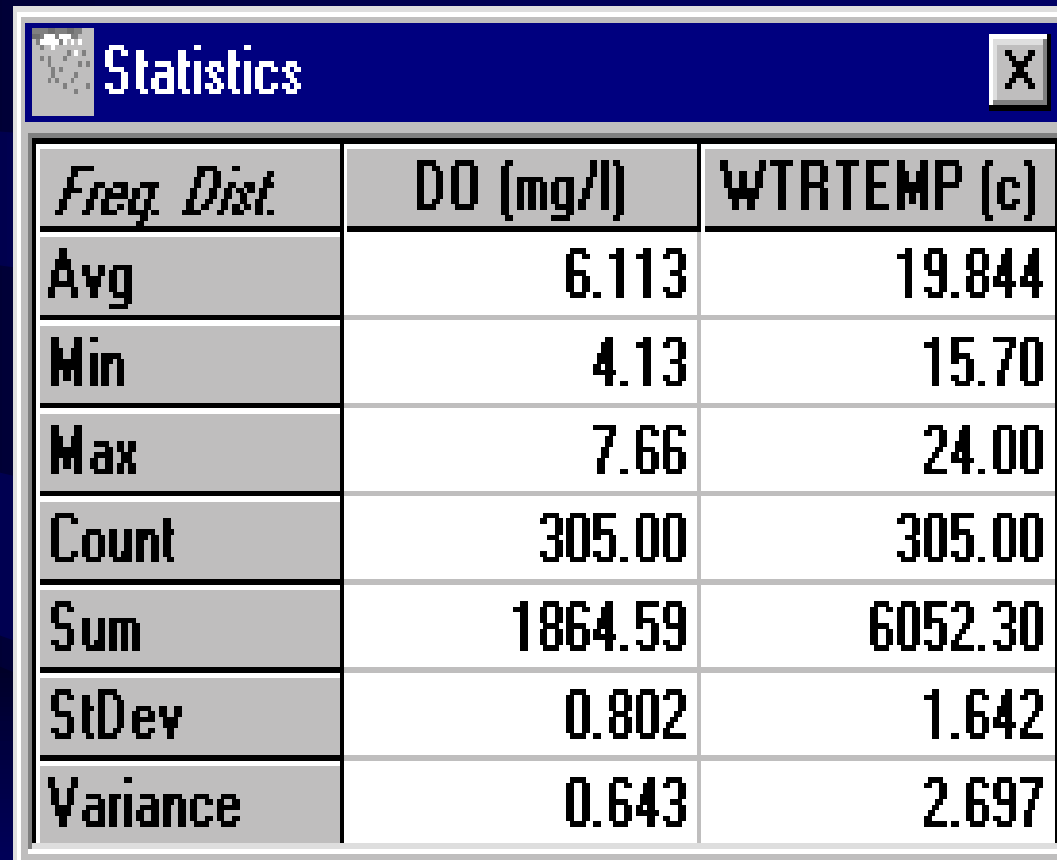
# Selection Tips

- Click on single choices
- Choose the \* at the top of the list box to select all items
- Drag mouse for contiguous choices
- Control and click for non-contiguous choices



# Statistics

- Select the “Statistics” button to review the statistics for the selected data set

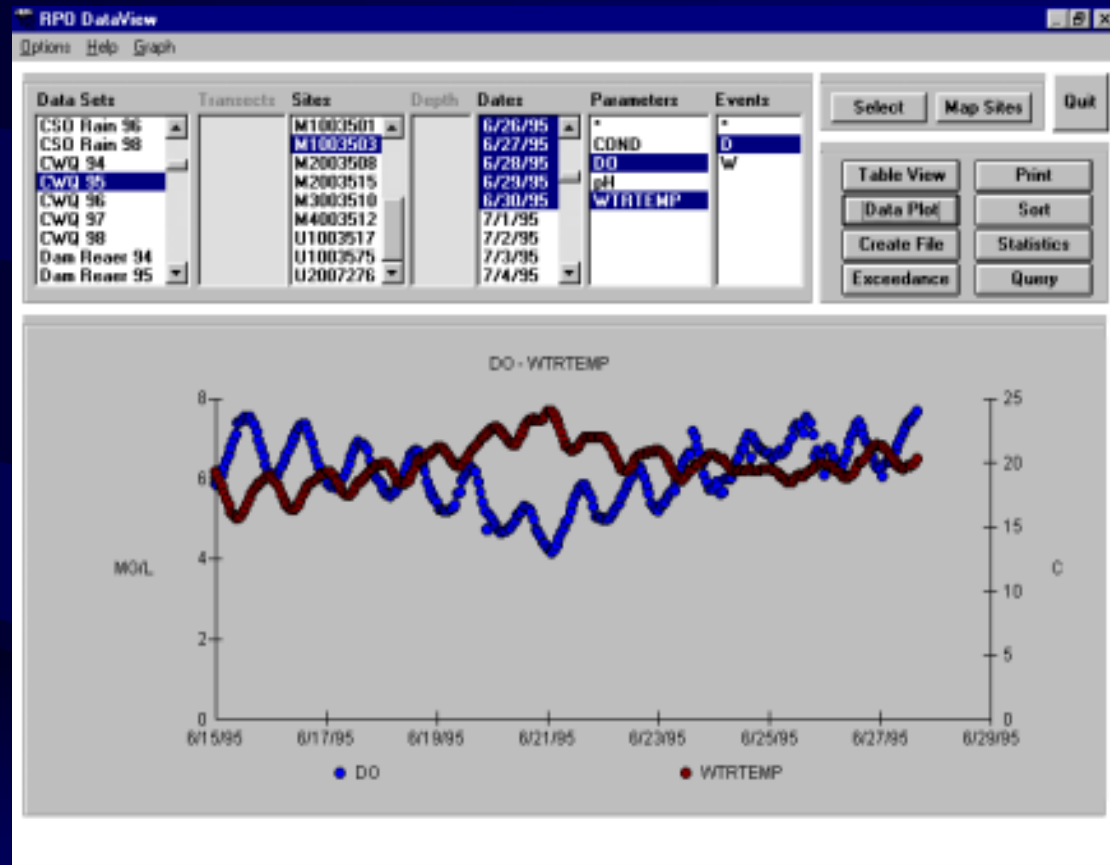


The screenshot shows a window titled "Statistics" with a close button (X) in the top right corner. The window contains a table with three columns: "Freq. Dist.", "DO (mg/l)", and "WTRTEMP (c)". The table lists various statistical measures for two data series.

<i>Freq. Dist.</i>	DO (mg/l)	WTRTEMP (c)
Avg	6.113	19.844
Min	4.13	15.70
Max	7.66	24.00
Count	305.00	305.00
Sum	1864.59	6052.30
StDev	0.802	1.642
Variance	0.643	2.697

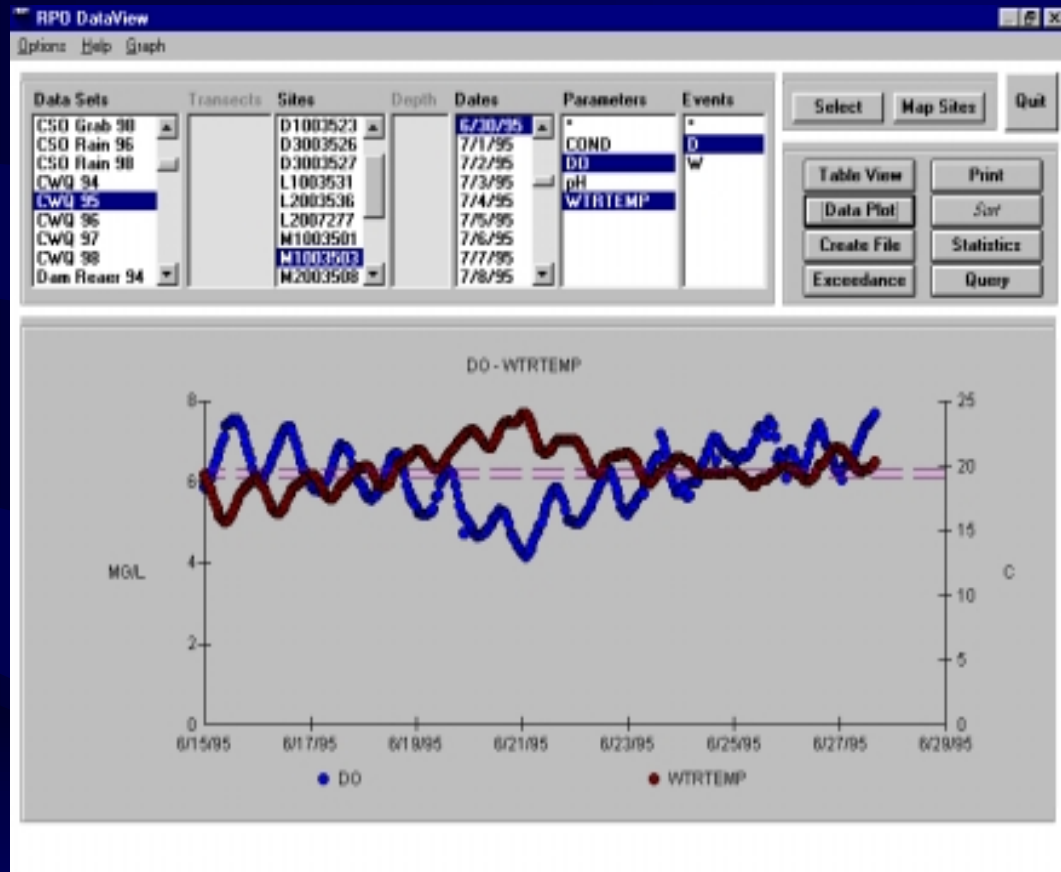
# Data Plot

- Use the “Data Plot” button to graph DO (mg/L) and Temp (C)



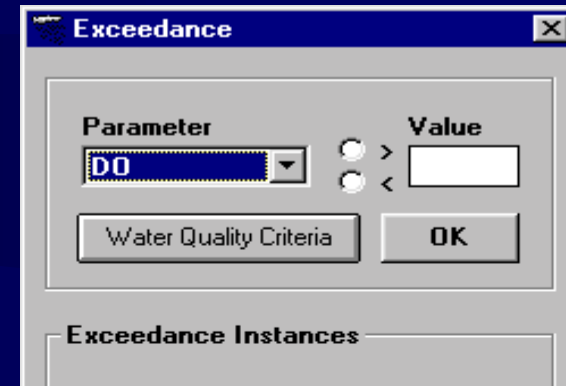
# Data Plot

- Statistics may be added by right-clicking on the graph
- Select “Stats”
- Select “Mean” to add the means of the 2 parameters to the graph

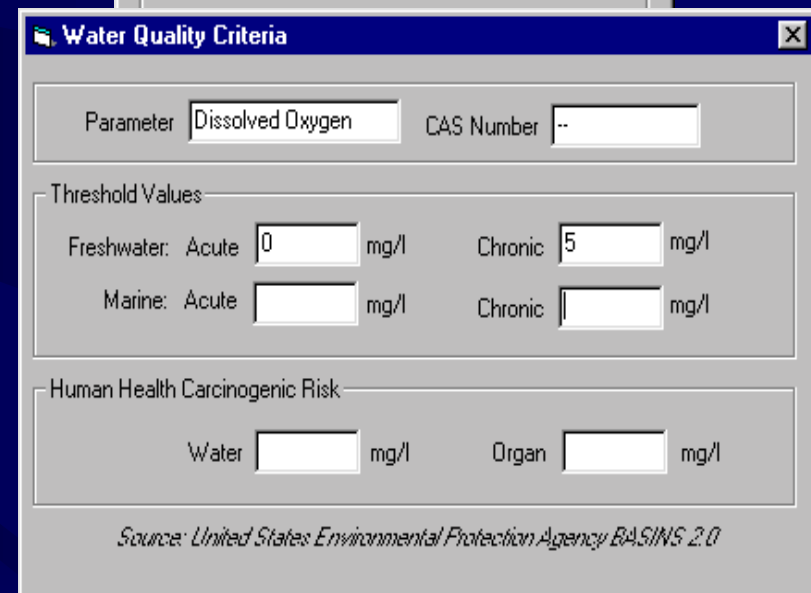


# Exceedance

- View the Water Quality Criteria for DO by choosing DO in the parameter list
- Select the “Water Quality Criteria” button to view standards



The 'Exceedance' dialog box features a 'Parameter' dropdown menu with 'DO' selected. To its right are two radio buttons for '>' and '<' comparisons, followed by a 'Value' input field. Below these are two buttons: 'Water Quality Criteria' and 'OK'. A section titled 'Exceedance Instances' is visible at the bottom but is currently empty.



The 'Water Quality Criteria' dialog box shows 'Dissolved Oxygen' in the 'Parameter' field and '--' in the 'CAS Number' field. It contains three sections: 'Threshold Values' with input fields for 'Freshwater: Acute' (0 mg/l), 'Freshwater: Chronic' (5 mg/l), 'Marine: Acute', and 'Marine: Chronic'; and 'Human Health Carcinogenic Risk' with input fields for 'Water' and 'Organ' concentrations in mg/l. A source note at the bottom reads: 'Source: United States Environmental Protection Agency BASINS 2.0'.

# Exceedance

- Find DO data with values less than 5 by completing the expression at the top of the form
- Select “OK”
- DataView will return the number of instances

Exceedance

Parameter: DO Value: 5

Water Quality Criteria OK

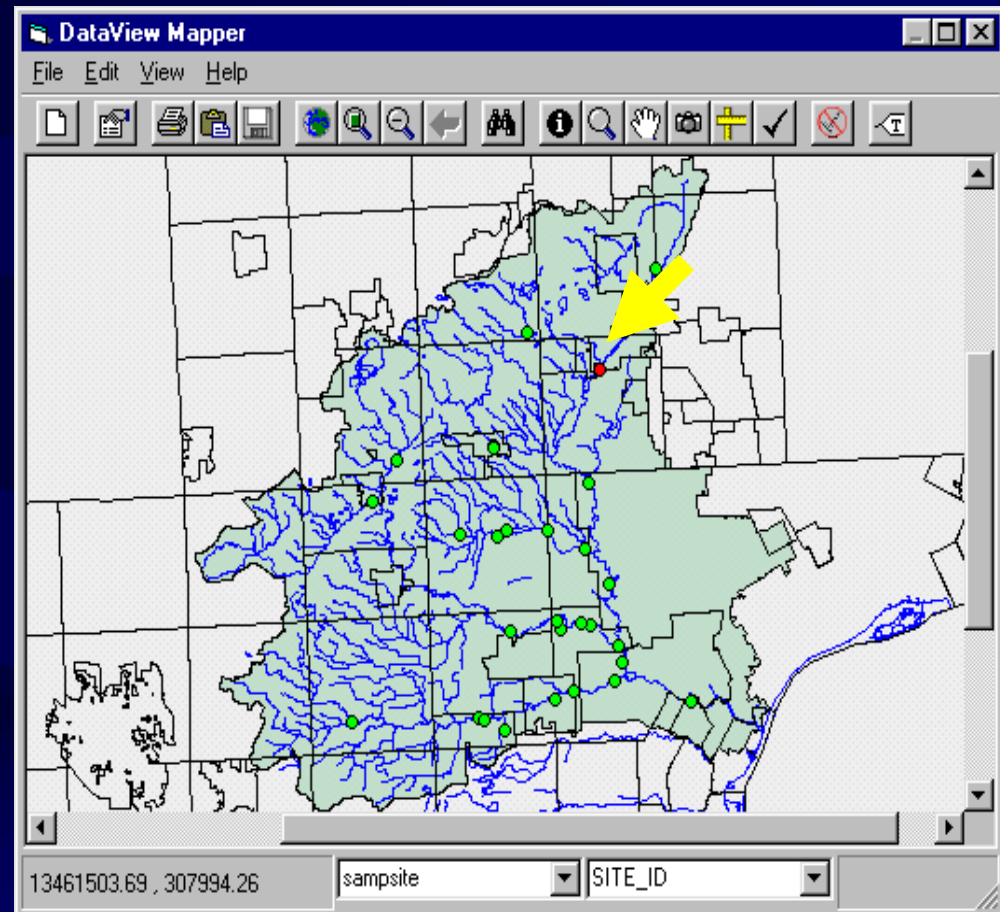
Exceedance Instances

Site	No.
M1003503	31

Map Sites

# Exceedance - Map Sites

- Sites that exceeded the values selected may be mapped by choosing “Map Sites”
- Red indicates sites that exceeded the selected criteria



# Query

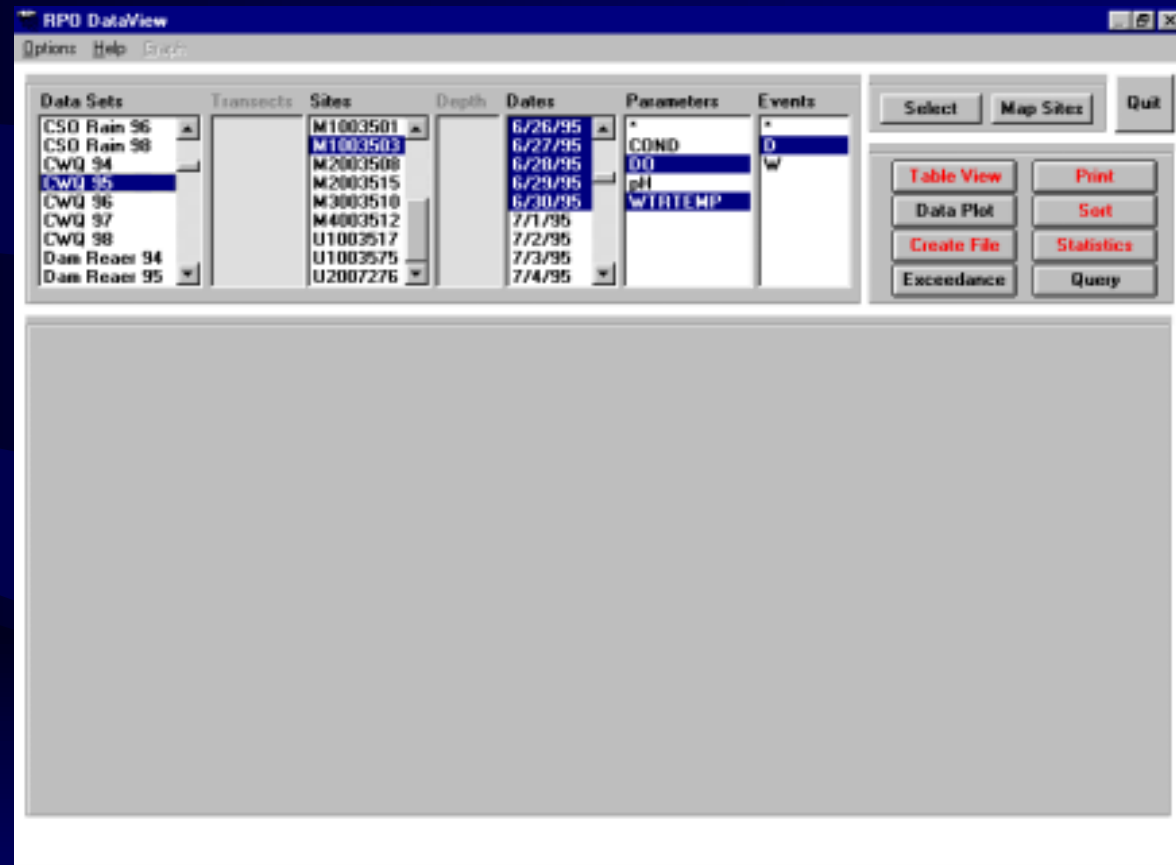
- Query the data for instances where the Dissolved Oxygen level was below 5 mg/L in the selected data set

The screenshot shows a 'Query' dialog box with the following components:

- Parameter List:** A list box containing 'DO' (selected) and 'WTRTEMP'.
- Value:** A text input field containing the number '5'.
- Comparison Operators:** A vertical column of radio buttons with labels: '=', '>', '<' (selected), '>=', '<=', and '<>'.
- Logical Operators:** Two buttons labeled 'AND' and 'OR'.
- Query Statement:** A text area containing the query 'DO < 5'. Below it is a 'Clear' button.
- Action Buttons:** 'Execute' and 'Cancel' buttons at the bottom.

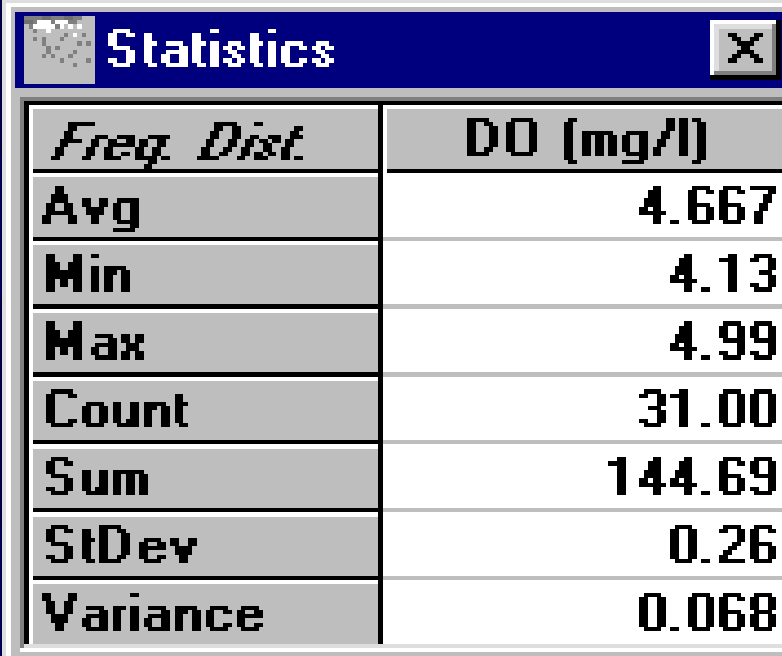
# Successful Query

- Available Data Options indicated in red
  - Table View
  - Create File
  - Print
  - Sort
  - Statistics



# Statistics

- Statistics available for the queried data from the data set

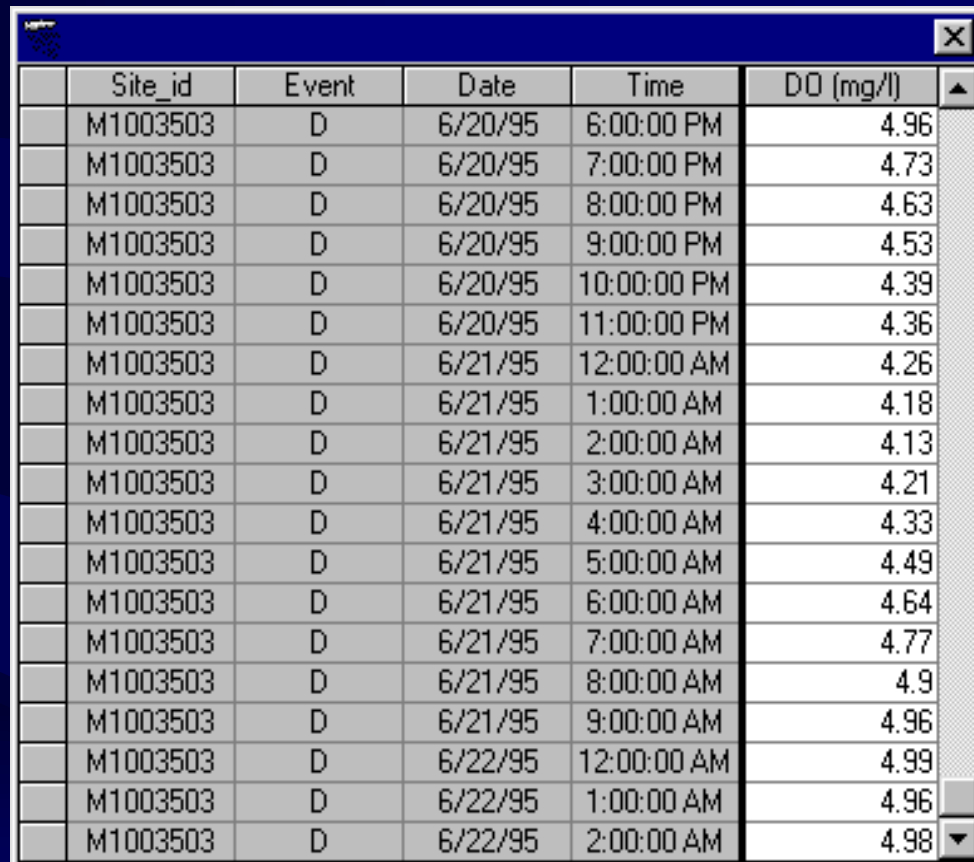


The image shows a screenshot of a software window titled "Statistics". The window contains a table with two columns: "Freq. Dist." and "DO (mg/l)". The table lists various statistical measures for the data set.

<i>Freq. Dist.</i>	DO (mg/l)
<b>Avg</b>	<b>4.667</b>
<b>Min</b>	<b>4.13</b>
<b>Max</b>	<b>4.99</b>
<b>Count</b>	<b>31.00</b>
<b>Sum</b>	<b>144.69</b>
<b>StDev</b>	<b>0.26</b>
<b>Variance</b>	<b>0.068</b>

# Table View

- Table view can be either cross tabulated (shown here) or
- Record which displays the complete record



	Site_id	Event	Date	Time	DO (mg/l)
	M1003503	D	6/20/95	6:00:00 PM	4.96
	M1003503	D	6/20/95	7:00:00 PM	4.73
	M1003503	D	6/20/95	8:00:00 PM	4.63
	M1003503	D	6/20/95	9:00:00 PM	4.53
	M1003503	D	6/20/95	10:00:00 PM	4.39
	M1003503	D	6/20/95	11:00:00 PM	4.36
	M1003503	D	6/21/95	12:00:00 AM	4.26
	M1003503	D	6/21/95	1:00:00 AM	4.18
	M1003503	D	6/21/95	2:00:00 AM	4.13
	M1003503	D	6/21/95	3:00:00 AM	4.21
	M1003503	D	6/21/95	4:00:00 AM	4.33
	M1003503	D	6/21/95	5:00:00 AM	4.49
	M1003503	D	6/21/95	6:00:00 AM	4.64
	M1003503	D	6/21/95	7:00:00 AM	4.77
	M1003503	D	6/21/95	8:00:00 AM	4.9
	M1003503	D	6/21/95	9:00:00 AM	4.96
	M1003503	D	6/22/95	12:00:00 AM	4.99
	M1003503	D	6/22/95	1:00:00 AM	4.96
	M1003503	D	6/22/95	2:00:00 AM	4.98

# Create File

- User chooses
  - File Layout
  - Field Length
  - Text Qualifier
  - Delimiter
  - Location to save file

Text File Output Criteria

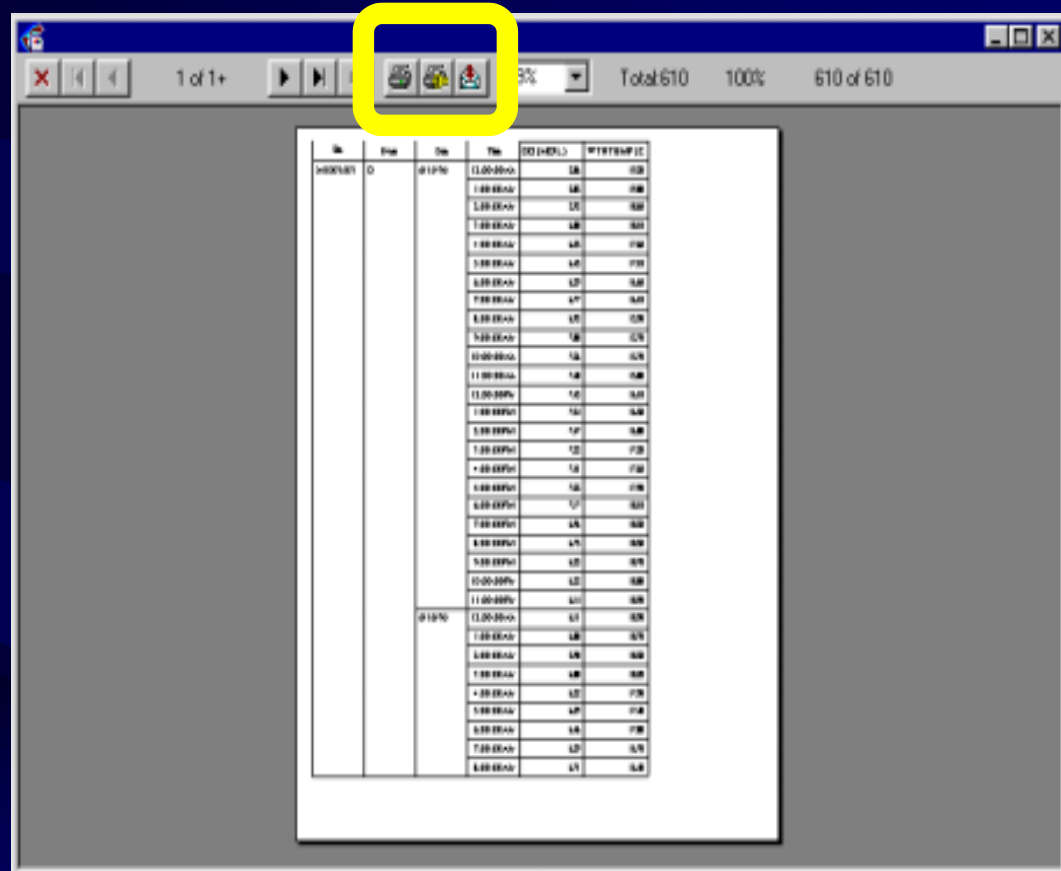
<p>File Layout</p> <p><input type="radio"/> Regular</p> <p><input type="radio"/> Cross Tab</p>	<p>Field Length</p> <p><input type="radio"/> Variable</p> <p><input type="radio"/> Fixed</p>	<p>Text Qualifier</p> <p><input type="radio"/> None</p> <p><input type="radio"/> Double Quotes</p>	<p>Delimiter</p> <p><input type="radio"/> Comma</p> <p><input type="radio"/> Space</p>
--	--	--	--

Add field names to file

OK Cancel

# Print

- Print
- Print Setup
- Export



The screenshot shows a software window with a toolbar at the top. A yellow box highlights the Print icon (a printer) in the toolbar. Below the toolbar is a table with the following data:

No	Time	Day	Time	DO (mg/L)	WTRTEMP
WEEK101	0	01/1%	11:00:00+	18	15.0
			1:00:00+	18	15.0
			2:00:00+	18	15.0
			3:00:00+	18	15.0
			4:00:00+	18	15.0
			5:00:00+	18	15.0
			6:00:00+	17	14.0
			7:00:00+	17	14.0
			8:00:00+	17	14.0
			9:00:00+	16	13.0
			10:00:00+	16	13.0
			11:00:00+	16	13.0
			12:00:00+	16	13.0
			1:00:00P+	16	13.0
			2:00:00P+	17	14.0
			3:00:00P+	17	14.0
			4:00:00P+	18	15.0
			5:00:00P+	18	15.0
			6:00:00P+	17	14.0
			7:00:00P+	17	14.0
			8:00:00P+	16	13.0
			9:00:00P+	16	13.0
			10:00:00P+	16	13.0
			11:00:00P+	17	14.0
		01/2%	11:00:00+	17	14.0
			1:00:00+	18	15.0
			2:00:00+	18	15.0
			3:00:00+	18	15.0
			4:00:00+	18	15.0
			5:00:00+	17	14.0
			6:00:00+	17	14.0
			7:00:00+	17	14.0
			8:00:00+	16	13.0

# New Section on Data Import

# Data Import

- Import from a variety of formats
- File must contain specified fields
- Some fields must be populated, others may be left empty, but must be included
- Fields must be of the correct data type (text, number, date, time)

# Required Fieldnames

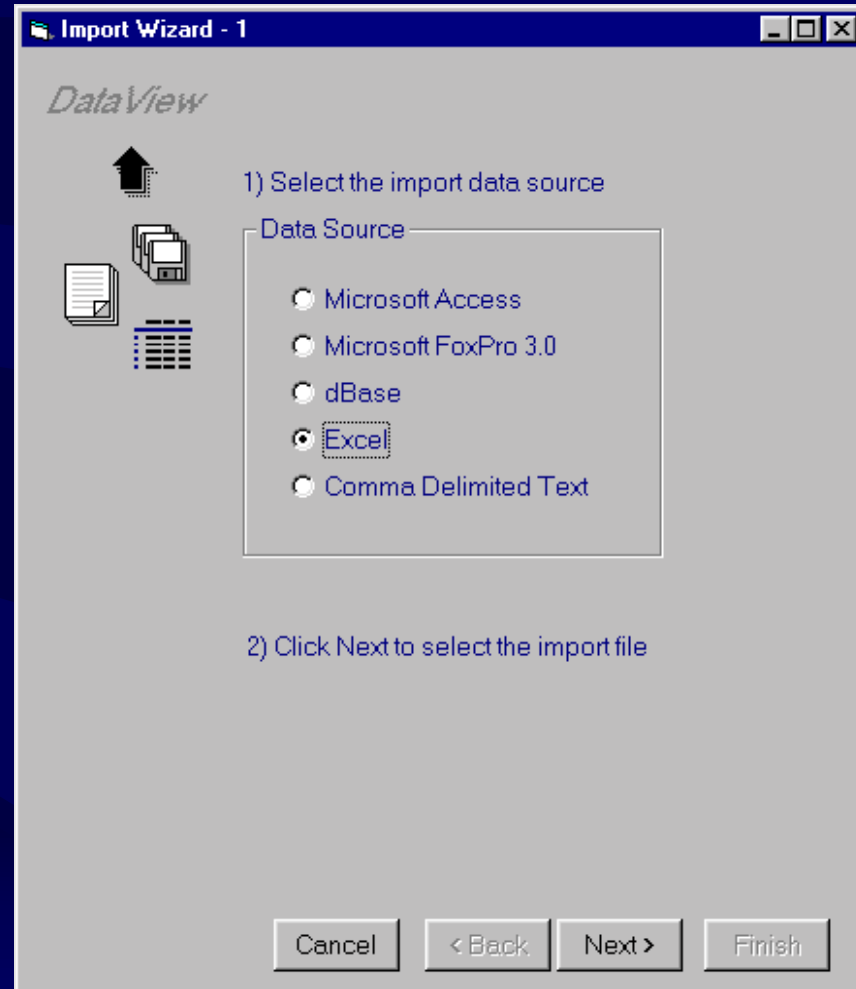
- SITE\_ID \*
- TRANSECT
- DEPTH
- DEPTHUNITS
- EVENT
- DATE \*
- TIME \*
- PARAMETER \*
- VALUE \*
- UNITS \*
- DL
- DL\_UNITS
- FLAG
- METHOD
- SAMPLETYPE

Fields marked with \* must be populated.

# Data Set

## Import

- Allows user to import data into application
- Acceptable Formats
  - Microsoft Access
  - Microsoft FoxPro 3.0
  - dBase
  - Excel
  - comma delimited text

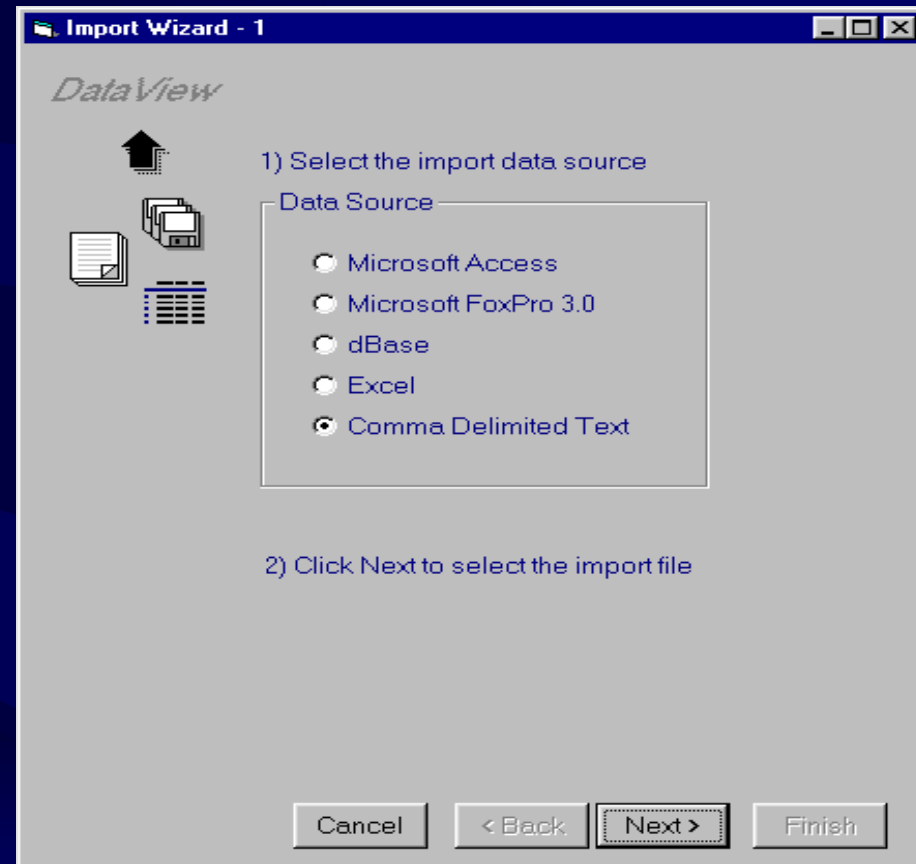


## Exercise 2 - Data Import

- DataView contains an Import Wizard to simplify the import of data
- Functional for all acceptable data source formats
- All DataView Options are then available for the imported data set

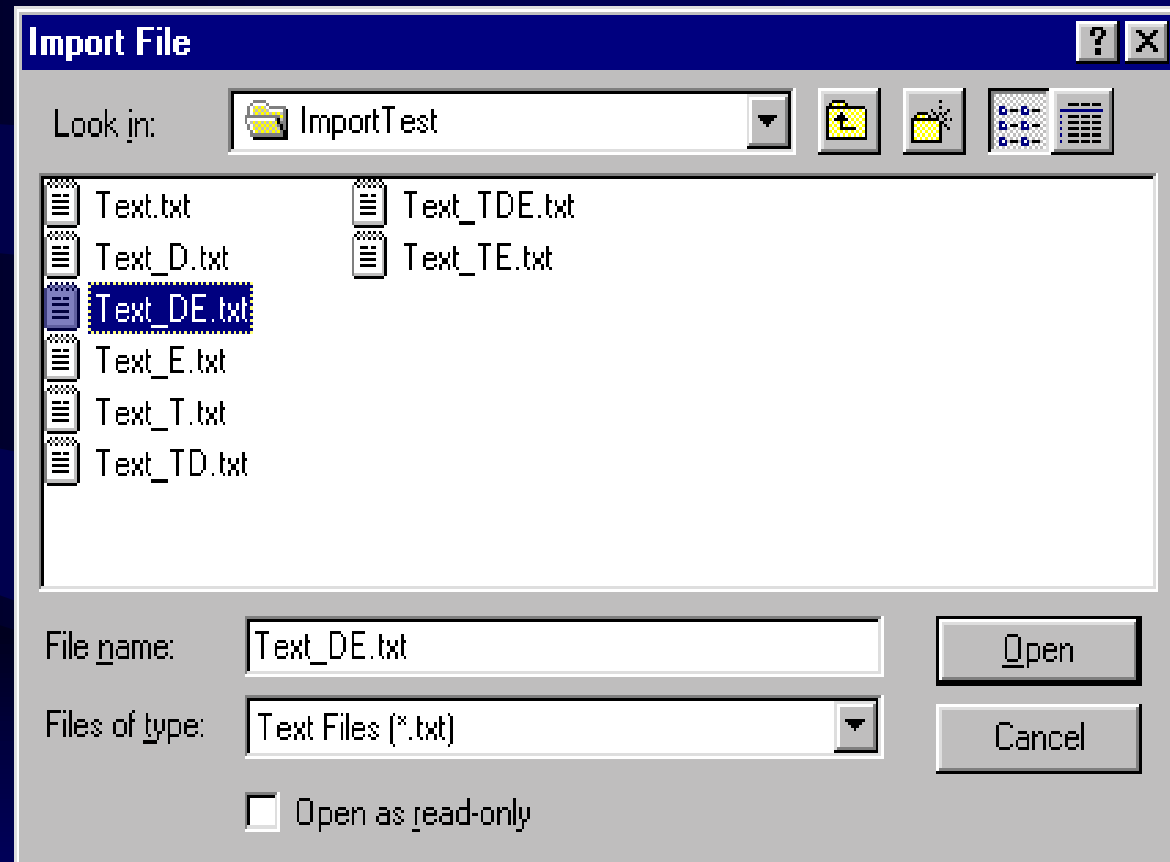
# Source Data Formats

- Choose the import data source
- Acceptable Data Source Formats
  - dBase
  - FoxPro 3.0
  - Microsoft Access
  - Microsoft Excel
  - Comma Delimited Text
- Click “Next” Button



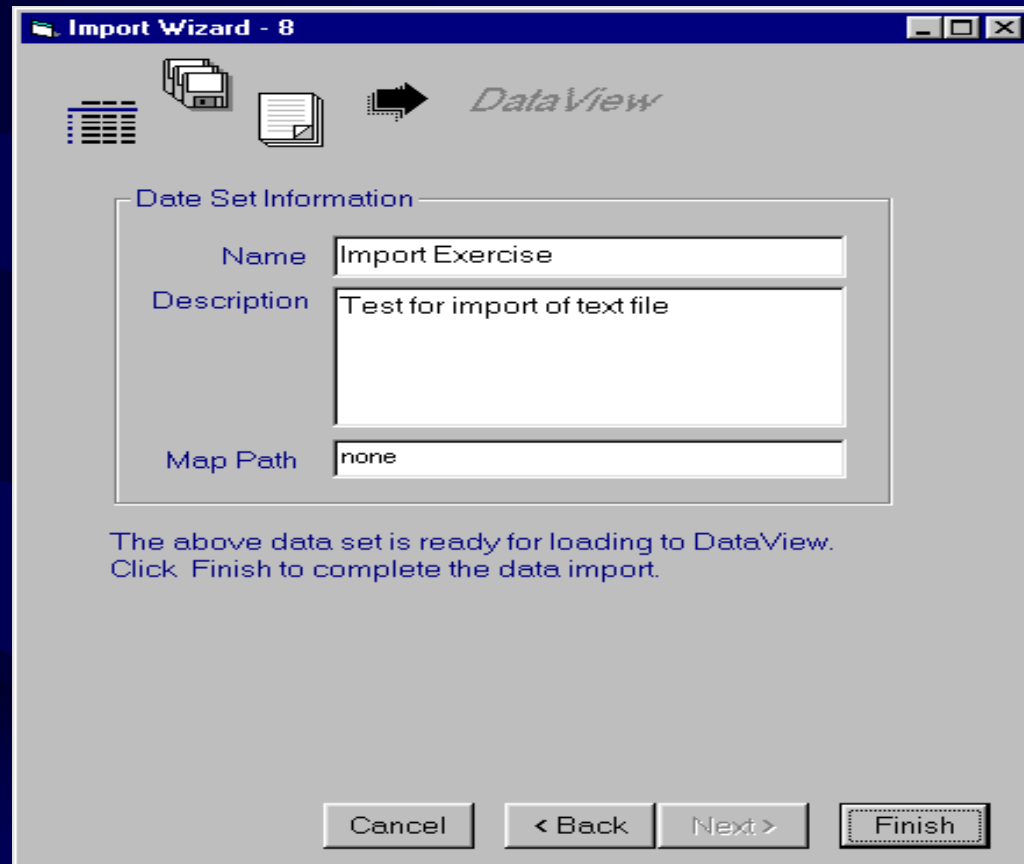
# Import File

- Choose the file to import
- Select “Open” Button



# Data Set Name and Description

- User defines data set name and description
- Map file may be associated



The screenshot shows a window titled "Import Wizard - 8" with a "DataView" header. The "Date Set Information" section contains three fields: "Name" with the value "Import Exercise", "Description" with the value "Test for import of text file", and "Map Path" with the value "none". Below the fields, a message states: "The above data set is ready for loading to DataView. Click Finish to complete the data import." At the bottom, there are four buttons: "Cancel", "< Back", "Next >", and "Finish".

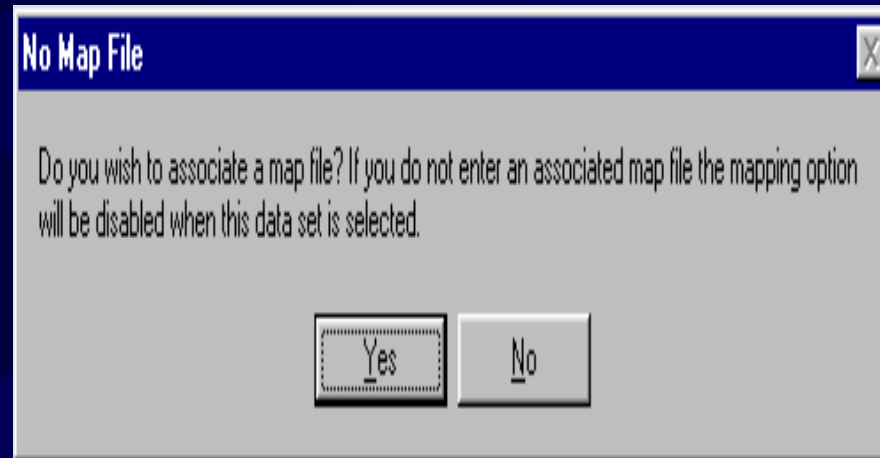
Date Set Information	
Name	Import Exercise
Description	Test for import of text file
Map Path	none

The above data set is ready for loading to DataView.  
Click Finish to complete the data import.

Cancel   < Back   Next >   Finish

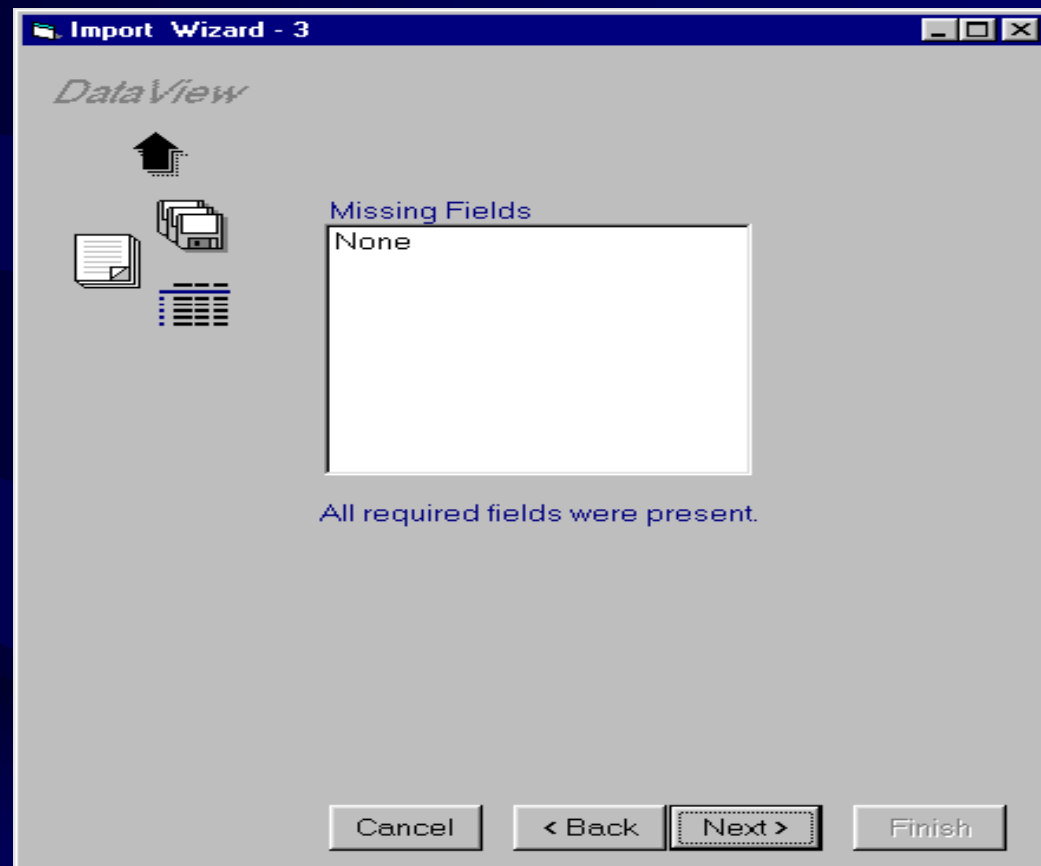
# Map File

- Not associating a map file with the data file will disable the mapping option when the data set is selected



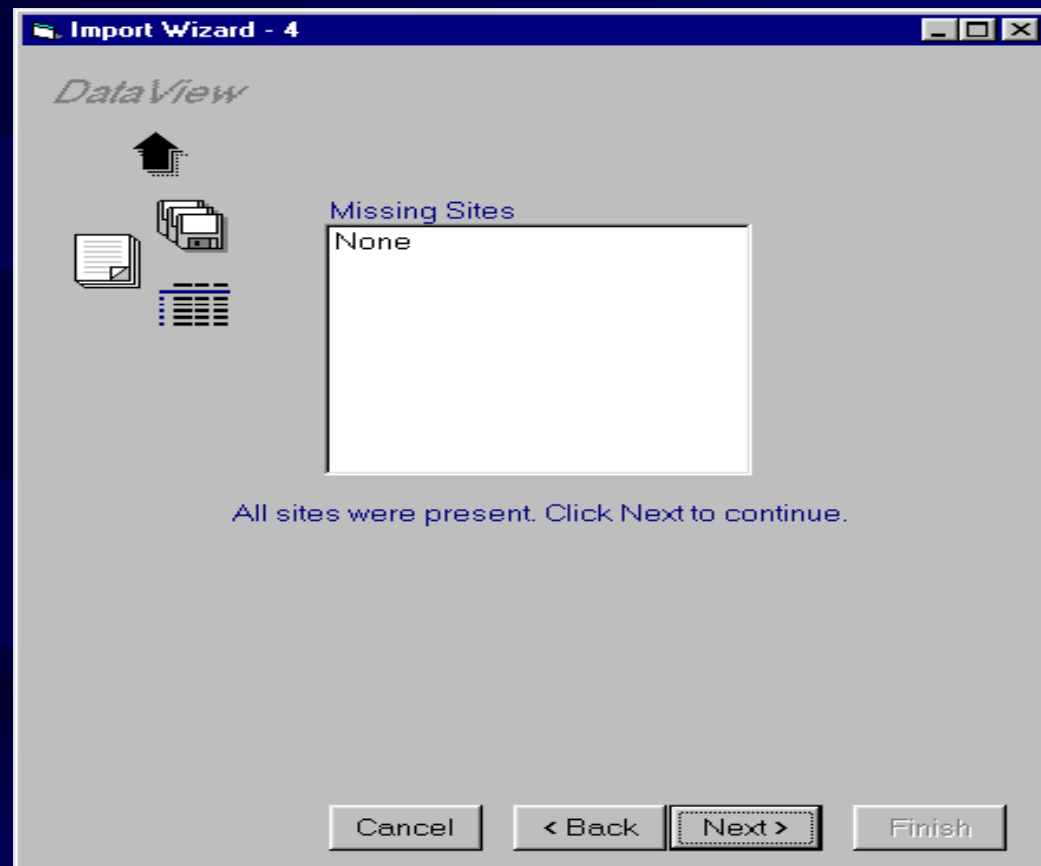
# Import Wizard Data Checks

- Import Wizard checks that all required fields are present
- Click the “Next” button to continue



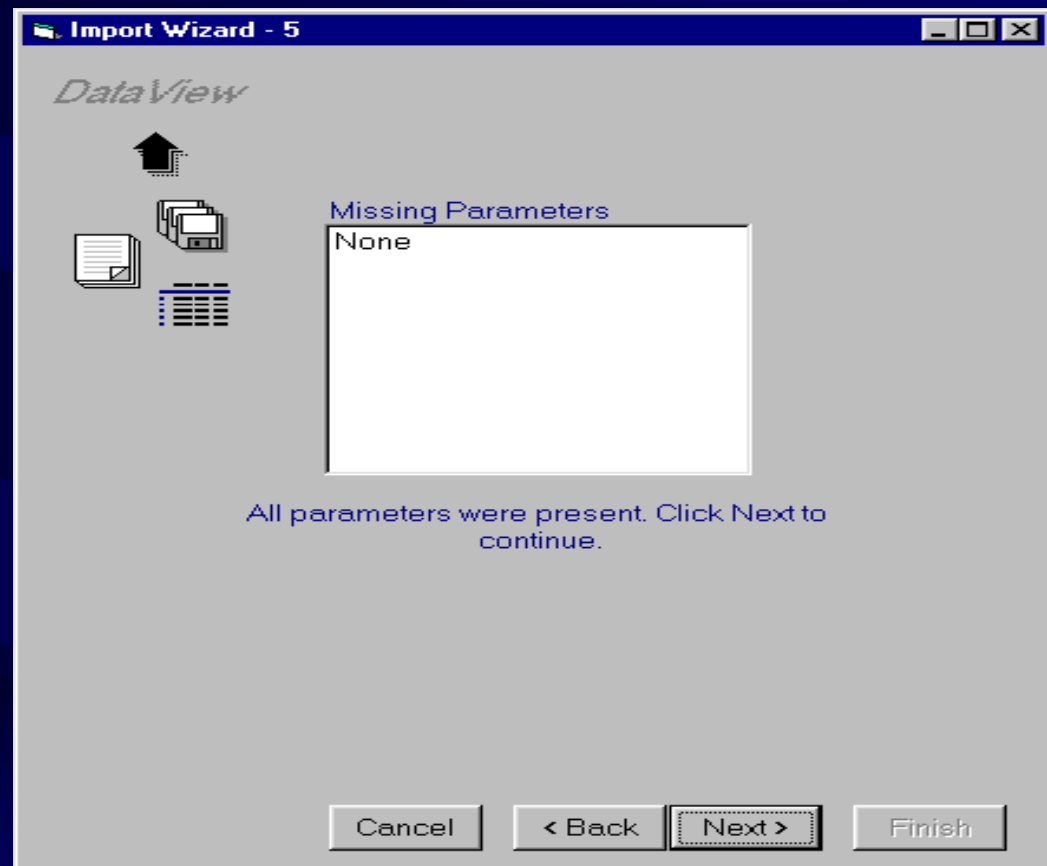
# Import Wizard Data Checks

- Import Wizard checks that all sites are present
- Click the “Next” button to continue



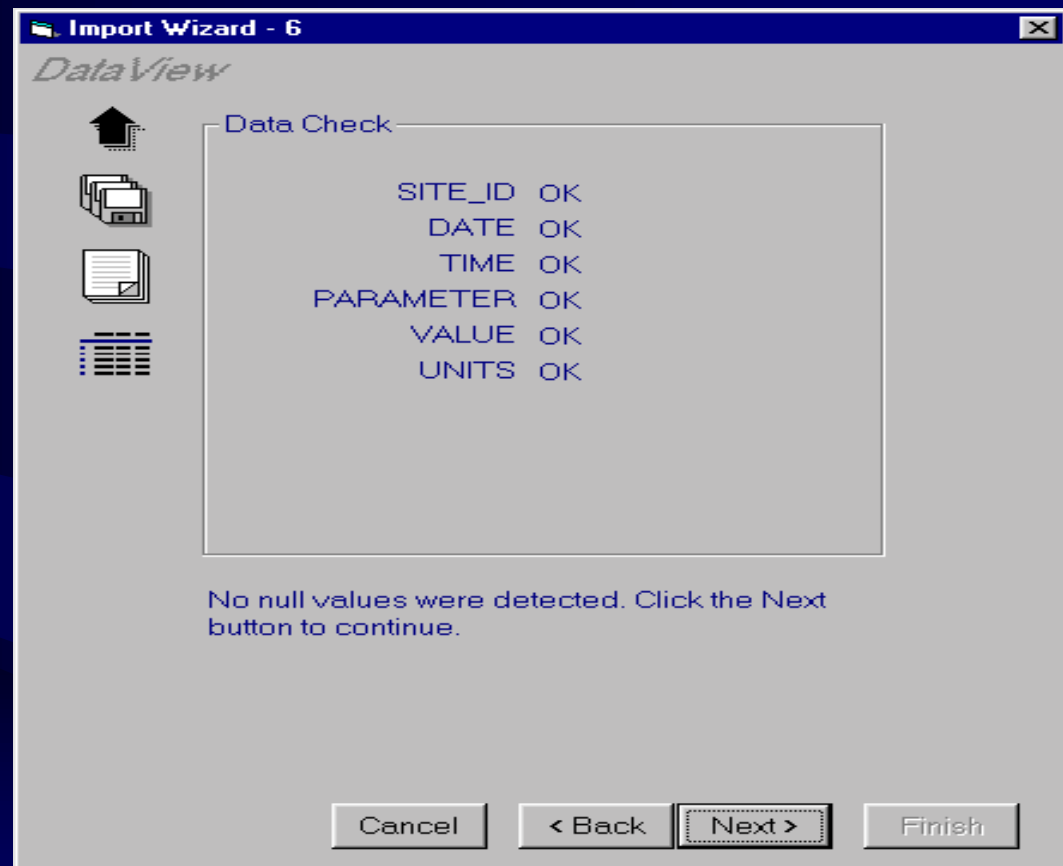
# Import Wizard Data Checks

- Import Wizard checks that all required parameters are present
- Click the “Next” button to continue



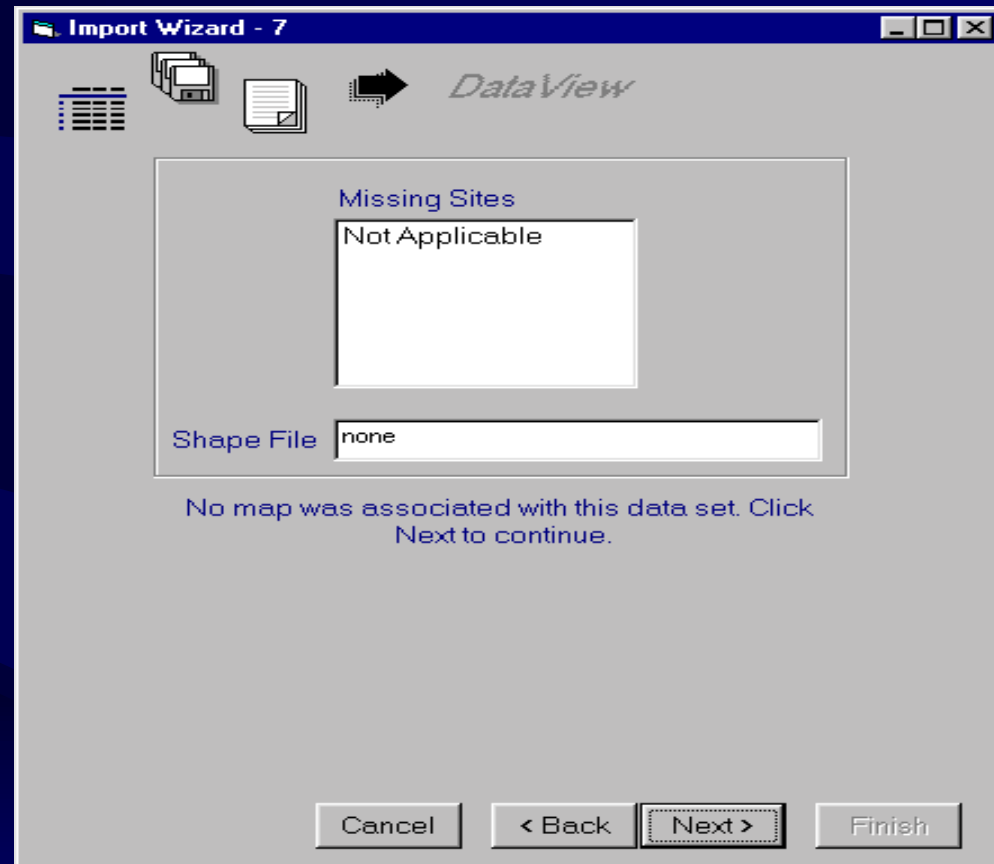
# Import Wizard Data Checks

- Import Wizard checks that no null values were detected
- Click the “Next” button to continue



# Import Wizard

- Import Wizard checks for the ArcView shape file to include as the map file
- Click the “Next” button to continue



# Import Wizard

- Import Wizard lets the user know the data set is ready for loading to DataView
- Click the “Finish” button complete data import

Import Wizard - 8

*DataView*

Date Set Information

Name: test file

Description: text file test

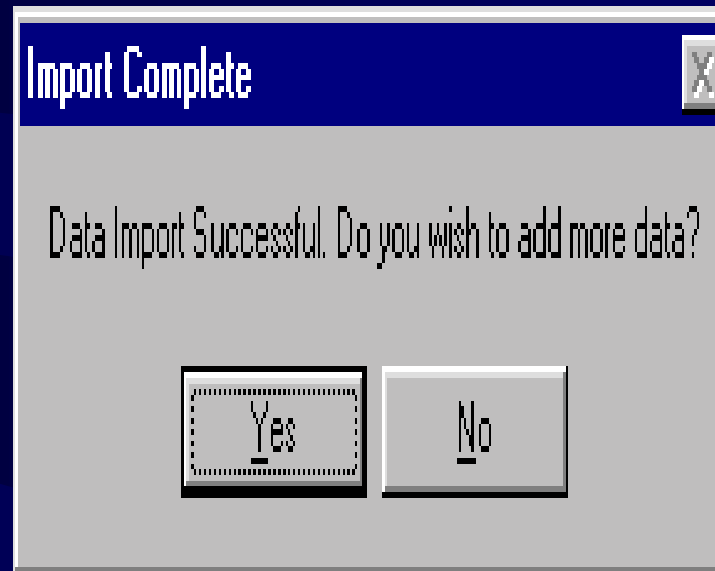
Map Path: none

The above data set is ready for loading to DataView.  
Click Finish to complete the data import.

Cancel < Back Next > Finish

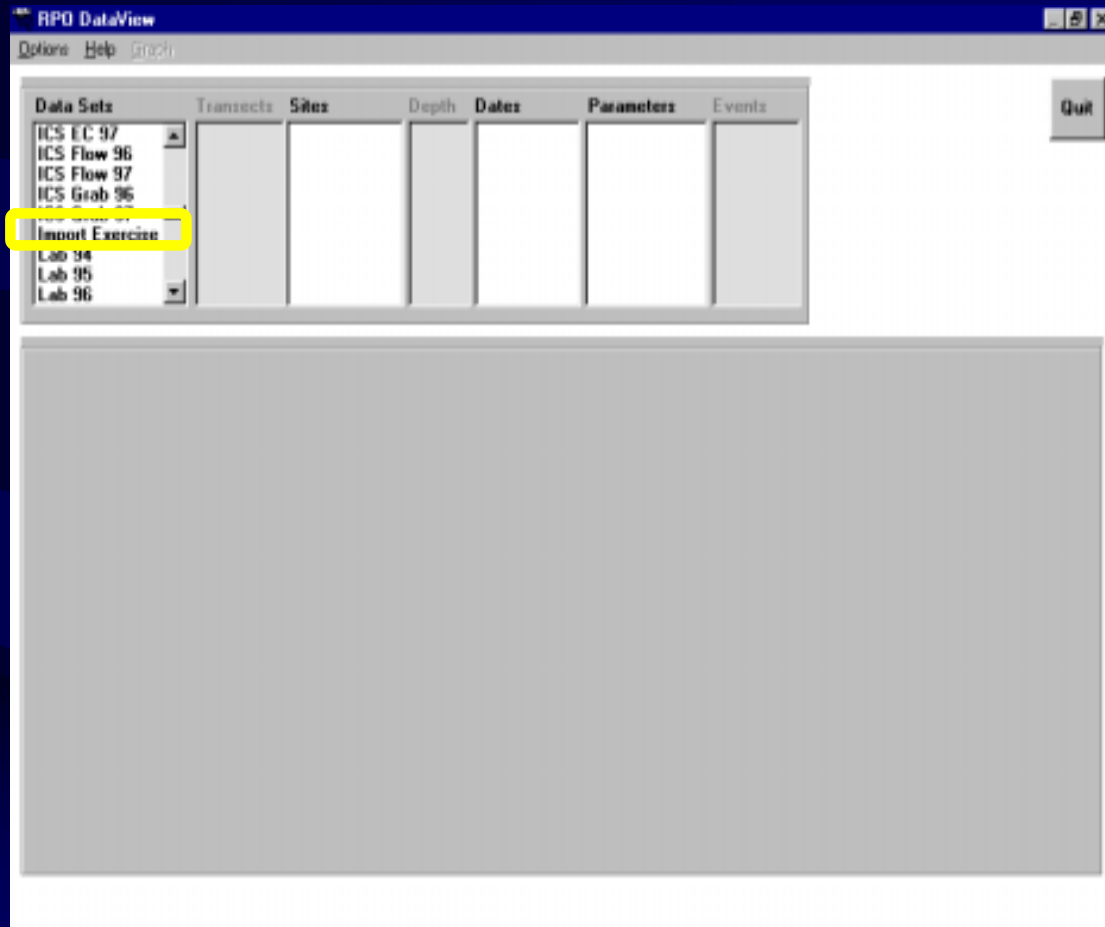
# Data Import

- Screen indicating successful data import
- May continue adding data



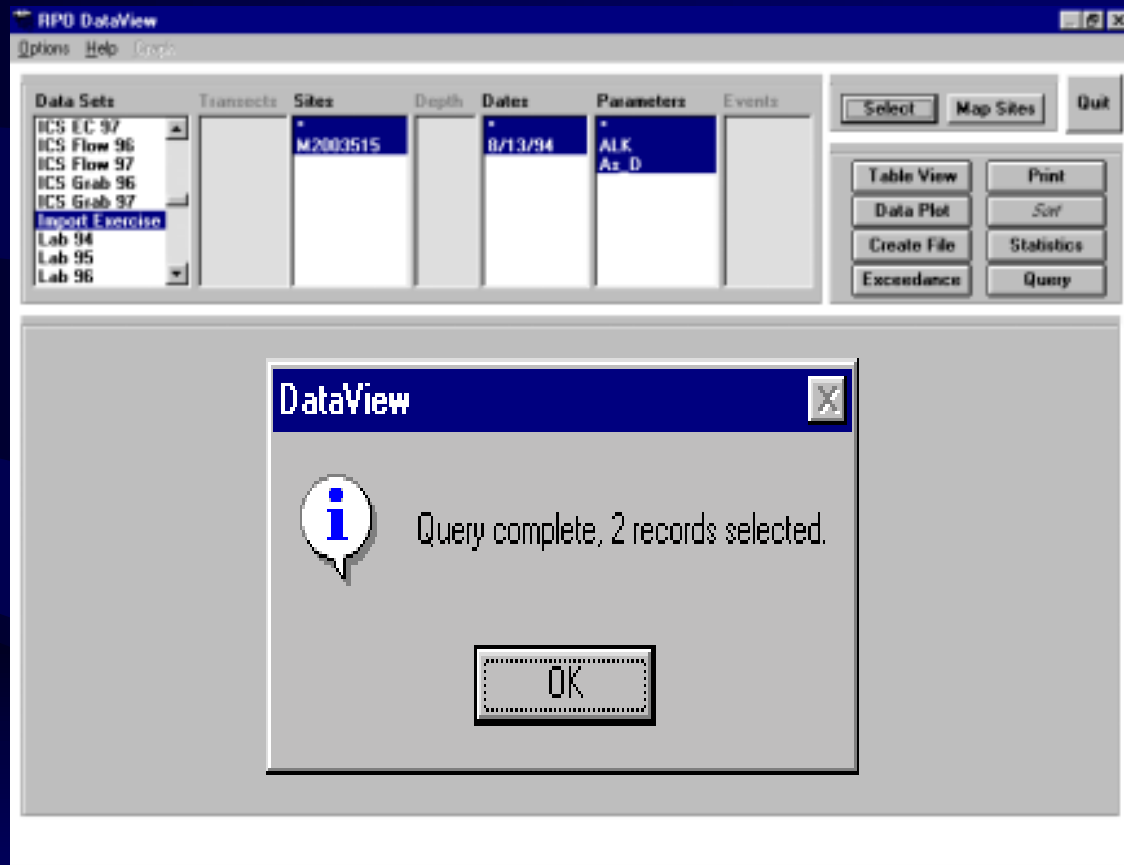
# Data View Main Window

- Imported file is included in DataView data sets



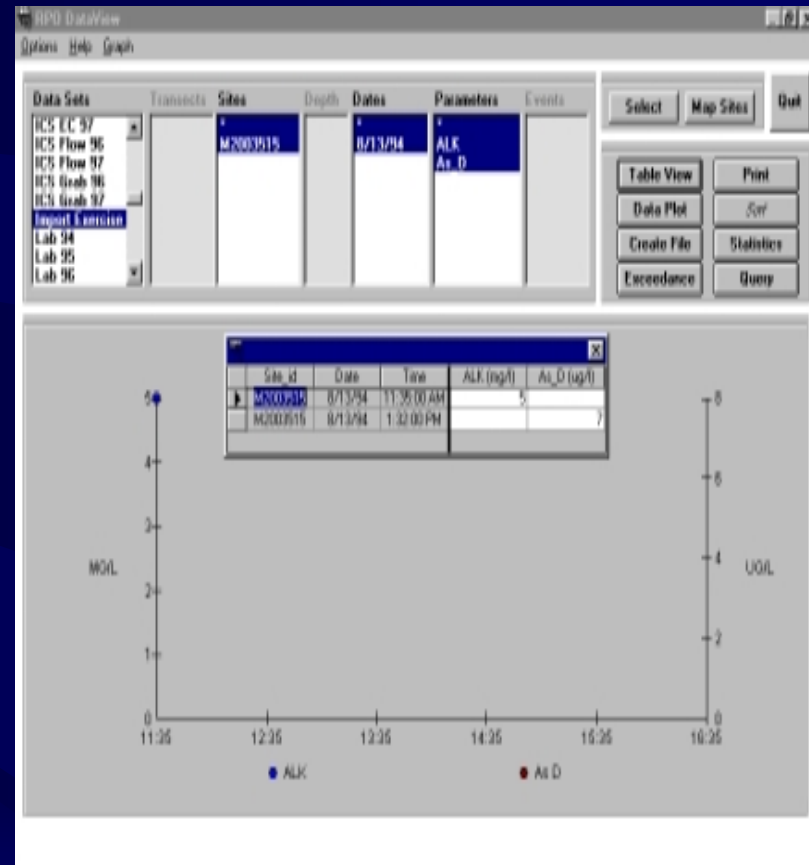
# Data Import

- DataView box shows successful query and number of records



# Data Import

- All Data Options now available to user
  - Table View
  - Data Plot
  - Create File
  - Exceedance
  - Print
  - Sort
  - Statistics
  - Query



# Data Import

- Data Set can be deleted

Delete/Edit Data Set Info

Name:

Map:

Data Set Description:

# Data Import

- The file is no longer present under the data set list box

